

ttttccaaaa gttgaagcaa ataaattaat ttaacttctt atagataaat ttatccagga 120
 tgatcttggt atgtatttct tctttgggag attgtaagat tacccttaac ttacaatntg 180
 aatntatatt ctgaattatg tgagttatat ataagtgggtg ttatgtttga taatggattt 240
 gtttatttta gctctaaata tattnttatt cttgtatctt ttttagtctt tataaaatat 300
 gtttatttta tttttgtggt ntagatagta ctttgaacag taaaaaatat tctaaacaac 360
 gaaataaaga ctatttaaaa cactttacag ggacaaaaat g 401

<210> 31188
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31188

ttagcttgta gttgtataaa ctaaagnngg nggcagcaat gaggaagatg cagaaacggg 60
 atccaacaag gatggtcaac ctgataacca tcaccatcgt tacctcaaac actgagcttc 120
 tactaacaat ggagaccata tgaagtgtgc aattttttat actgatttgg tgcacagagg 180
 gaagtcactt aatttaaggg aattgaaatc tttacctggc aattcggtag gtaaagttga 240
 ggtagatgct gatgatatag catataataa agggaacaag catattagta aaacaaaaca 300
 caggaaaggt aagcttgatg acatttcacc aagtgggaca gaaactgcta agatatacag 360
 caaanagaat agtagtaatg ctgactgcc aagagctaaa cacaatagag atgctact 418

<210> 31189
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 31189

ttatatgaca ataacagtta ttaaaagttg gaagtgggtga gctgattcac gacttttatt 60
 tgatattaga aaaatcaaaa tagagtcaat aataaggaga gttaacaagt gaaaattaga 120
 gtgaatgagt attttattct accatcgcag gtcattgttg gctgatgagc ctatttcaaa 180
 acaacaacat tttaggatta actagcatga tatgagatcc ttgccactac acgggtcact 240
 cgactgtttt tgtaagattt ataggtaata aatataaata atataatata tttccaatta 300

JCS03 U.S. PTO
 09/421106
 10/16/99

attaaggtta tcgctagaat caatattaag gttaatgcta gaatgaatat ctatgtgatg 360
 agtatatcga ttataaaaaat ctaaactata tcttctgtgt taacaagaat aaaacaataa 420
 :gatg 424

<210> 31190
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31190

tcttctccat ttgatcacgc gatcttatat gatcatctcc accaccccaa aggaacctac 60
 gttgtatgcg caccaatttg tccaccaccc ttatgggtac cctgaaaaaa gaaaagaaat 120
 aaattggaat agaggttagg attgatttta taagagtgac tcttccccca naagatatgt 180
 gtctctgttt ccactttgct agtttctctc cgtacttata gattattgng tcccacaact 240
 gacacctcct tggatttgcc ccagtgggca tccccagta aacaaaaggg atggacagca 300
 ggctacaatt caagtaattg gctgcattnt gcttcacga ctccgacata ccaatngatc 360
 cgaatctgct ttttgcannt attattgaga cctgacacca attcaaaggt cctcaagatg 420
 gctttgatca ccctgatgtt ctncattgat 450

<210> 31191
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31191

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 catgccttta ctctttatnt tactggatga cattttctag aataagggat taaatgatag 120
 agactatgaa gggaggaaag caaacaggaa ttatggtgca ttgggggtgg aatgaaagtg 180
 gaaagaaaag gaagagaaat agtaacctta gaaagaaaaa ttcaataatc aattatttct 240
 ttgcgaagtt actttttttt caatcaaate taaaactttt ctcttctccc cactttttgt 300
 caccacacca aatgaccata aatgattgaa acttaatgga gttactcttc aatgggctta 360
 tatgatgatc tattttttga tgtattgtca tactaattga tagctttat 409

<210> 31192
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 31192

caacgagccc ctggacaagt tgcgagttag cgtagcatca cagcttcttg accctgatta 60
 cacttgctag tttgagacct gcaatgagtg cctcatactc ggcctaatta tctaaggctt 120
 agaagttaag ctagaggggt cactctagag taacatcatt aaggccttcg aggatgattc 180
 gtaccccgcga tcctttcatg ttggacgcac tgtcaatgta gaggctccac cagtctaggg 240
 tgggtatggtc gttccagaaa atctgcatga actgggtctca tgggctgtaa ggtcatactg 300
 agatccactc tagagtctac tgacatgcaa catctct 337

<210> 31193
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31193

tgacaatgct gttaaaatac atatntcacg agataatttg atgcctcagt ctgtttcact 60
 tttgcgtgta aggatccctt gttcaaaagg atgggagctt ctagaatggc ttcgtttgcc 120
 gtagatggta aggtctgcta tctatatnct tctgtcacta aatgcttgct attgctattt 180
 tatgaccctt atttctttgg tgcattgacat atatngaact tttattaatc attagtcatt 240
 tgcattattag aggtagttgt ttctagaacg gattcctatt cttgtaacaa gcataatttc 300
 attatccctg tgctttacac tagtgacatt tagtcattta atatttatct caacttaatt 360
 cttgaaat 368

<210> 31194
 <211> 522
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31194

gtgtctttga nttcagcacn tgcganngag ccgggcccgg gancncanc gtcgaccngc 60

ngcangcaag tttatttttta ctttacacag acnaagcgaa naggncggga cagaacacac 120
 cccancaanc gnaggaanca aagcagagaa agannncaaa acgcngacca accaaaccgg 180
 agcaacaaag acancccgaa ncatcataca gaaaacaaga cccaccaccc gccaatgac 240
 gaaacacaat aaagcatgaa aaccatccag acttatgggt ttaacgctcc ccatttgact 300
 aacagtctaa tgagatgtag tagcccaatg aagacaacca acatccacat accattctga 360
 tgtaagctcc attggagctt gcaagcctac gatcttcttc atcaatggat tcctttgctt 420
 cttgcaacat gaatggctgc agaatggaga aggaagagag agaggacacg ccacttcaat 480
 gacaacacta gtctagaaca tgctcaccac catatgaaag cg 522

<210> 31195
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31195

tgagatgagg aagtgttgaa gggtgaaact tcctgctttt attgttgacc acagagtggg 60
 acctggagat atgtcgcggn ggtcaggaga ccttgnggac gtcaagtggg gtgctattgc 120
 ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcgggtcag tgagaacctg 180
 tgatgtacct aaacaggcga gctcctggca gtcaacagat aaaaggaaaa caagaccaca 240
 aagcaaggag gcttgtggtg gctggccagc tgtgaatttt gtgtaatatg tggatgggtg 300
 cctctggtaa tcgattacca aggggtgggta atcgatta 338

<210> 31196
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31196

agcttatgtt gtatattatt gatgncaaac aaagaagtaa aaacagtga ggtatggtg 60
 gtcaaaccag ttgcgaaatc ttcaaactca tggggatagg catcccaagt gatatgctgt 120
 aaagcaccac aaaaaatggg aactatatta ggacttccaa aagaaatgct atgctggctt 180
 ctattaaaca tggaattgaa ctcaacggga ttagtcttcc accctacaag gaaaggaaac 240

cacccttcga atttgggctt aaggcctaac tcanaccggc tnttaaggta aggactaata 300
aagccttana aggactccat tagagcatct ctaatgggtg taatttaagc aacctattnt 360
gagttgttta cattactgtt aattgtccca acaatgtcac atcanattta agtaattcat 420
atata 425

<210> 31197
<211> 302
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31197

tagcccaaga ggggatggac cttntcaggt cttggagagg atcaataata atgcctatag 60
gttggacctc ccaagagagt atggagtcag caccactttt aatatttctg atttaattcc 120
ttttgcaggt ggagctgata tagaagagga agaaccaata gatttgaggt caaatcctct 180
tcaaggggga ggggatgatg caatcctccc taggaaagga ccagttacca gagccatgag 240
caagaggctc caagaggatt gggctagagt tgataaagaa ggccttangg ttctcatgaa 300
cc 302

<210> 31198
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31198

ttagcttttc ntttccttg anacacnnga gggacccgag gtcattatga atgacaaatt 60
ccttgtgata aaggtagtgt tgccatgttt tcacagccca tattaatgca tacaactcct 120
tatcataagt agaatagttc aaggtaggac cacttaactt ttcactacca taagcaatcg 180
gatggccttc ttgcatcaac acagcctcag tccccacatt cgaagcatca cactcaatnt 240
caaaagattg ttgacagtca gacaacgcaa gtatggaggc attagatagc tntttcttaa 300
gaacattgaa agcatcttct tgattctctc cccattcgaa accaacatta tgctagagca 360
cgtcattgac aggtgctggc aatgtgctaa aatccttcac atatcatcta t 411

<210> 31199

<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31199

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aaggttaana gaagcttaac ctcatcttct catgaactgc aatttcgagt cgggaagggt 120
cgcgccggcc gggaagtcaa cctcgggttg tagaagaaca agcttaagga agtcaacctc 180
gggttgtaga agaacaacct caggttcaaa agagtgaaca acctangggc ttgcttcana 240
tgcgaaatga gcaacaaggt taggggttcag aacagtgaac tcaaatgcga aagcaattan 300
ggttttttga actaaaattt ttttttttaa tttgatttac gacgggtttt taataataaa 360
ctggcataaa tttataacac anaacattct aagggtggtt tcaataaccc gcttagaatg 420
tacgtcgtga attccaantt tcagtattat a 451

<210> 31200
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31200

tttctcttgt acttctnct tgctacaatt gcaattgccg gtgtttaagg ttgaccaca 60
tttcangcac atgcctttgg acccaagacc acatactgaa ttcattgtaa tctcaagatg 120
caccctggcc cttatgttct ttgaaatgtc aatttggtc ttgtgtggag gaaaatataa 180
ttgatcatcc atgtcaataa gtgcacgtc gtcggcatcc ttaccactgt nttcagaggt 240
tgaaagtgtt cttccccaaa aataacaccc atatcaatag tctcttggtc ttcaatgcgg 300
tcatcagtga gtaaaagtga gaactcagag aatatgc 337

<210> 31201
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31201

tcaacagacc tccaancnag aatggagagg gnnaccacta ctggacaacc cgaatgcaaa 60

gttttatcga ggcaatagat ctaaatatct gngaagccat aganatangg ccttatatac 120
ccaccacagc agaaagagtt tcaatagatg gtagttcatc aagtgaaagc ataaccatag 180
aacaacctac agatagatgg tctgaagagg atagaacacg agtacaatac aacctataag 240
ccaagaacat aataacatct gccctatgaa tggatgaata gttcacaagt tcaaattgca 300
agagtgctaa agacatgtgg gacactcctt cgataacaca tgagagaact acagatgtta 360
aaagatctac gatacatgca ctaactca 388

<210> 31202
<211> 200
<212> DNA
<213> Glycine max

<400> 31202

tgtacgcgac actatgcaat acataatcgg gagaogtaca aacactgact taaggagcta 60
tgtgcgaact atgtacgcaa caataaatgt gaaattggag gcgatagtgc aagagaatga 120
gaaaatgctg tggaatgcag agtctgagag agtgcttcca actacatatg acacaagcac 180
agccagaggg cgatgactac 200

<210> 31203
<211> 267
<212> DNA
<213> Glycine max

<400> 31203

ctatacttta aatctttaat tcaggttacc aatggttgac aaattaaaaa atcttgaata 60
attctaaact attgatatta aaaaatattt attggggaac taaatttgct agtaaattca 120
catgaaattt tatectaatt ttcctaccac attattataa tattaataaa ttttacctac 180
caatacatgt ccacaagaaa atcgtaagta ttttctggca ttatataccc tatagaaccg 240
caagtatttc ctattgattt ctttcaa 267

<210> 31204
<211> 462
<212> DNA
<213> Glycine max

<400> 31204

ctaacccttct agcgtacccg ctattggtgc tcagaaaatc ccaaattttt atttctctta 60
 ttactagcta ttttgaattc tttagttcct gaatgtacaa ctttcaaatt gttgctcggt 120
 cccgtatatg tttcttgcaa aaaataaaat taatctgaaa caattcacgc tgaattgtta 180
 tcgttattat tactcatacc ataaggaata acagctaacc aagtaattta aaatgtaact 240
 cttaaattat gaggtatttt ttttaattaca attttacttc aatatctaata attgttaact 300
 tacttacgtc gttgtttaca tataaatatc aatatatagg tgatctactg ataataataa 360
 gtactagcta atcacaaatt atgataccta tcattttaga ttataactca attctataaa 420
 tattaataaa cttataataa gacaatcctt aacatgtgct gc 462

<210> 31205
 <211> 475
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31205

ggatgagccc agaagccagg ttaatanent toganannnc ncnnnnnnnc ncgcgcennnc 60
 nncaagggac cttcggcaag cagccngtta tttcaagggt tttccctgga ttaagagcgt 120
 tgataggcct ttgagccttg gttccctttc cttgttttga agctcactac cagccttaaa 180
 tgaaaaccct gatattacca tatccctacg gaattttgga actttggaat tgtttgggaa 240
 taagtggggg ggggttttgg ttcattggac aacttggttt cgtggctatg cttcataagt 300
 attttgcccc tacttgatga cattgcatat ggctaaatgg tggacttctg aatgaaatgt 360
 gttctcaacg ctaagagcaa aaaaacaaat cgaaaaaaaa ttctaaaaaa aaaaaaaaaa 420
 agcataaagt gatgaataaa cttaacgccc agaatagaaa cttggcttat ctctg 475

<210> 31206
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31206

gcttctatgg aggctggctc tgtgagcttc aatgaggtcc tttttgttga tttttcacca 60
 tggatatgca gcggaagata aaggagaaaa gctgatagga ggcaccatcc actagggaa 120

aagccatgga aaaaagagct tcaccaccaa gagagtgtct tggataagaa gattagagag 180
gaagcttcat tggaggaaaa gaaagaaaga gaaaggtggg ggtgatgcaa tcctaccnc 240
caagggcatt ggatagaaga ctccaagaag attgggacaa agatgcaaga gaatgcccta 300
nggttctcat gaggcttang gcagatttcg ggcccatggg ctaagtatga gccacttat 360
ctttgtatat attagactac gatgtcatta tatttgatcc ttgtatttag ggctccatat 420
tgtagatagg gtaccctaga aatat 445

<210> 31207
<211> 343
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31207

tgaataacgg aagctcttga gaatttcaaa tggtcataac ttggcacact cgggtccgat 60
tcaagcttat aatatatcga agacgcctac aattaaacat cggaagctct cgagaaattc 120
gaatggtcatt aattttccaa acggatgtcc gaatccggcg cataatatgt ctagacgctc 180
gaaatcgaac aacgaaaact ctcgagacat tcatatgggc ataacttttc ctcggatgtc 240
cgattcagac gtatcacata tagagacgct cgtanatgca catcggaagc tcttgtgaaa 300
ttacatgggc ataactttta cacggatgtc cgattcaggc gca 343

<210> 31208
<211> 508
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31208

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agcgcgcaca agcgatctac gcgtgtatca gaatcatgct atgtgctcgc gaatgggtccc 120
cgatgtccct tcgcaacttg agttcattat tgctacccca tagagctccg cgaaatgaga 180
agcggccata cttttacttg cgagccctct tgggctgttg atcaagggtc gttgcggtaa 240
gtgcattctc ttaccggaac cgggggcact cattccgaac gtgtgtaaca tccaaagtga 300
acttctccgt ggcgagttat gcctttccta actcgatttt gagagcttgg acttncctgt 360

gatattccccg tgctataaaa atctcttcga tgacgacttt taacttggcg agccaatcta 420
 aacctcgat gcgaactttc agccattcgt ggatgatgca agctccattg gagcttgtag 480
 gactangatc ttcttcataa tggattcg 508

<210> 31209
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31209

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 acagggggcca aagatgcatg ggagatcctg aaaaccactc atgaaggaac ctccanagtg 120
 aagatgtcca gattgcaact attggctaca aaattcgaaa atctgaagat gaaggaggaa 180
 gaatgtattc atgacttcca catgaacatt cttgaaattg ccaatgcttg cactgccttg 240
 ggagaaagga tgacagacga aaagctggtg agaaagatcc tcagatcctt gcctaagaga 300
 tttgacatga aagtcactgc aatagaggag gccaagaca tttgccacat gagagtagat 360
 gaactcattg gttccttcaa actttgagct aggactctcg atagggctga aag 413

<210> 31210
 <211> 327
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31210

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 ccccatgaat gtcattgcct agcgctgttc atgtgtcctc caccttccag cttggtgcta 120
 tatttcatga ttgcctaagt gcggaccctc aagtgcaatc ctccattctc ccccttcttt 180
 ggagcccat gaatgttatt tcctagcggg gttcatgtgt cctccacctt cgaatttggg 240
 gctatatttc atgattgcct aagtgcggac cctcaaggca atactccatt ctacacttt 300
 cttggagccc catgaatgtc attgcct 327

<210> 31211
 <211> 426

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31211

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 ccactcggac ttccaaaata gcagattctg aatatgataa aaagaaagat ccacacatta 120
 atatttaagt tttatagtta ttccaaccaa ctggggaaat ttagattcat catanataga 180
 ttagtaggct aattttgcat atctgacctt gcagagtata taacagaatt tgggccgatg 240
 tacttataca tganaaatgg gtaggaagaa actaaagata tggaaagcaa catcacctga 300
 taaaggtatg tgattgactc aacggaagat cttctccaat ggcaacaagg atntgccatt 360
 caacaagatc ctgaccaaca atcatttttg aacatggatg atcaacctgt attaacatcc 420
 cccatg 426

<210> 31212
 <211> 429
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31212

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 gagatggntg atgaaaagtt gtctgatgaa attttacatc ttaattaaac cttacaatt 120
 ttctcaccca acaaaacttt gtatgccctc cataaataat tttatgtgct gatccttact 180
 ctgatcgggt tgctattgga ggattttagt aatttaatta tatggcataa taaattaaaa 240
 tgactataca tntgtttact tactcacaac tctgtatgga ttcaaagggtg aattttacta 300
 tataattaaa taacttgga aaattacaga aggaaacatt cgaccacgta atttcatata 360
 ataatcttca ccaaaatfff gtacacgttg atattgtcat tgcactaatt catttataaa 420
 caatcaaat 429

<210> 31213
 <211> 251
 <212> DNA
 <213> Glycine max

 <400> 31213

aaatctgact tgccaaggtt ggggttggct ctctgctgac acatacagac tttgcgttca 60
 tgcacacctg gacaatgaca cttgaactat ctgcaatatt acataacctc tcaactcaca 120
 caaatcacc cagcaacaata tgactttcag cagcatacaa cctgatggag aatacctaac 180
 tcaatgtcag ccttacacac acacagctgt cttcttcaaa tgtgtggcca acaacataca 240
 tctcacatca c 251

<210> 31214
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31214

tgccccaatg attgcatact gtacaggcat gaattttatg taatgtccaa atgcacctatc 60
 tatgggactt cacggtacga agtgaacgat gaagaacaca gtagttctga tgaaaactcc 120
 aacaagggcc cccaacaaa ggttttgtgg tatcttccaa tcattccaag gtttaagcgt 180
 ctttttgcta acgaggacga cgcanaanac cttacatggc atgcaaattg aaggatttct 240
 gatggaatgg tccgtcatcc ggctgattgc tcccagtggga agaagattga tggtttgtat 300
 ccggatttcg ggaatgagcc aagaaatctt agacttggac tagccagtga tggaattgaa 360
 tcatatggca ccttaagcac tcaacatagt tcat 394

<210> 31215
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31215

ccccgctta ctttgtgang ctttgaacct tgggaaccag ctcgaccgg gagtcttaga 60
 gcacctgcag ttagtcacct ttctaacgtt atgccagaca gaacaacatt ttggcattgn 120
 cgccagtcca agaagaacta atcttccacg cccatgaccc caaggggtgg acgagttgcc 180
 cgagtgtacg ctgaaaaata cgctagaaga aaggtgatca acttcttaca tcaagagcaa 240
 caatgtggat ggaccgattt gctcttactt tgaacgggat tcaagaactt cctcgattgc 300
 tagccaaggc ttaggcaatg gtggacacct acttcgccct cgatgagatg cacagacttc 360

tccggtattg gcagcatatg atagacttaa tgggccatan tattagaaac cactacgaag 420
 tttgtattgg cactcagatc ttgactaatt ataactttct tgaaaaatga gttatccatg 480

<210> 31216
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31216

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 aaaaaaattg atttacagtc ctttaagcaaa attcttaagc agagtaaaca gaattatgga 120
 aaaacgaaaa aaccaatggc atgaaatgct ttggaataca actctagatt gatcacactc 180
 ttgtcccttc tcaactcccc anatttccat tttcatccca gacattaacg tgttctggat 240
 tcatgacctt caacagcgta caccttaaag atgtaactta cttgttcttc tttccatctt 300
 tttctgcttc ttgtttgaat tgcattgtact gttcaagcaa tttcatcgta atcctctact 360
 tctgctcgtc ttccaacaac ctcaatttgc caggttcatt gttttcctct gagcttgctt 420
 tcttgatctg caccaagcca tcaatacata aaa 453

<210> 31217
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31217

cgcctgtttt aagctagtan nttcctttga tagtgacagc ggatatgacc acgttggaag 60
 acgattccat taaaagacta ctaactaaaa agatcatgtg gaccacatta gtagaacagg 120
 ggggtggcag gtgaaaacat atgcatgcct tactatttaa agtttacaat atggaatata 180
 taattatgac aataaatata tgaaatacga gctactatgc ttatttattt atctgaagat 240
 acctcgataa atttctaact ctaactgcaa gaggtctatt ttaactcgcg atacaatgag 300
 tttcaattga cccaaattga gacactacac acttggacat ccacaattct caaagatctt 360
 ctctaagact ggaaagaaag cctctacttg gtgctgtatt atcaccacat gaca 414

<210> 31218
 <211> 564
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31218

acaaccgaca cagcaagcgc anctgcagaa cacatttaaat ttnannnnnta nnnnnnnnaa 60
 gccgggggtg tgactccctg nannacgcga catatanaaa ctcaagctnt acnncggatn 120
 nnnacagcac aaatcaaaca cacatactat atattccacc gcacacatac ccactagaga 180
 aaaaaaccag atgaggacaa aactctatcc actcacacga aagaaacaat aacacaagac 240
 aaaatcgcac acatcntata gaactaacta caagatatat cgccacacaa cggttatcaa 300
 atattaaaag aaaaaaatga acataagata atcaaagaat ttacngaaag aaccaaaaac 360
 gaaagagaac aatagccctt ccaaaaaagc caacaagaac tgcaatcaac ttacatattt 420
 tctgcctaag aaaaaaactt aaacaatttc tcatctctta tcttcataca ctactaaata 480
 tctctaactc tttaaactt caaagtgtca tacagggtcac tgcccacctc aatagaaaga 540
 gacaagaatg actacgcgta gcag 564

<210> 31219
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 31219

agcttttgtt aatatattcg ttctgaactt atcttggat taattgtttc ttaaaaagga 60
 agtgtacaca aataacattt taagaaaaaa aaacttttaa aaaacaactt ttaatgaaga 120
 aaagtaaaaa taaaagaaaa agaaactgta gcaaaaagtt aatattatga tcttttactt 180
 ctatttcttt ttttccaaat tataaaaaatt gaaggacaca caatttaaaa aattcaactt 240
 aataagtaat ttctaactta aaagatattt ttattttcta tgtctatatt gttaaaaagt 300
 aatttagtta aatgcattca aaatattttt tatattatta ttaaacttta aattgagata 360
 ttaattaaaa cttgtgactt cttataatta ttacttta 398

<210> 31220
 <211> 321
 <212> DNA

<213> Glycine max

<400> 31220

atgatgtgat cctgcctaag agcggatcgc ttgatacatg ctacaaagaa ttggatgacg 60
ccacttccca agatggaaga gaaagtatgg tagacgccac aatgattaac cttataagtc 120
tgagattggg tcaacaagaa acccatagag aagctctcac caaatTTTtat gaaaatgccc 180
atacttatag tgtatctgaa caaacgata aaatagacat gggTcttcta aacagtttgt 240
gccactatta caatttataa aaattattta tataaatata acatattggt atggccttca 300
aataatctgg acttcaacac a 321

<210> 31221

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31221

tctagcttgt tngtgaagct tctatggagg ctggatcttt gagcttcaat gaggtagctt 60
ccttgagaag ctttcttaag aagttagaac ttagctacac acacccctct aataactaag 120
ctcacttctt taagaagttt ccctgagaaa cttccttgag aagcttctctt gagaagattc 180
ctagagaagc tagaccttat ctacacacac ccctctaata gctaagctca cctcattgag 240
atgagaagct agagccttag ctacacacat cccctacaat agctaaactc accccattcc 300
aaaatacatg aaaatacaaa aaagtcctta ctacanagac tagtcaaaat atcttgaaat 360
acaaggctaa aaccctatac tactagaatg gccaatatat g 401

<210> 31222

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31222

cttagagggc aaaattgaga aatgtgcac tactatatgt tttttatgnc gggaggattg 60
agaaaaaaga tataggaata ggatcacaat gtatttgagg ccacattaag taaaataaat 120
gtacactcat tatatgtttt tctatgttgc catgcacatg tgaatatctg tgattttcat 180

tcaaaataac tcactgacac tcatagtggc aatttagatg ctattaatcg gtaaaattaa 240
 tttatctata gtaaattattg tctagaagac tgagtttgac ttgaatctgt aggattgaaa 300
 cagattatct cctcacctga agagaccatg gatgatagtc atcaacaaaa agattctatg 360
 gttggacctg aagataatac tcttcaacac gccaatagaa atactcatta tgaggagcaa 420
 gcagaagcaa acaataatta catcaca 447

<210> 31223
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31223

acaaaaagaa gtggatcaga tgggtgtataa atcatgtagc gggcaccttc ctacaaggaa 60
 aacgccctat atattaaaaa caccgtaaaa attagtgtcc atatttctac tgaaggctgc 120
 aacaagccaa aggcttcttt aacaagcatc taaattttaa atattggatg aaaacaattc 180
 aacaaaaaat gcatctaata aataaagcga gcttcttcat ggtgtggtgt aaacacaata 240
 tggatgtgag aaagtaattt cgatataaga aaataacgat aatgaattca gtatccagga 300
 ttcttncagt agacttgatt aatagaaaag aataacaaga aatgagaga agcgttcata 360
 tggtaacaca ngcaggggac acagtaac 388

<210> 31224
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31224

tctctagcta ctcttcacct tctatcacca tttctatntt tgactatatac gaaggctntt 60
 gttggttact ttgttttcca caagaaagac ttttaagtaca cattctttgt cattttataa 120
 tcaccaaccc aacaattggg taacttagat ggctngtttt ttcattctgtc aatctatcct 180
 ttcgaaatat tgacgactgt gtttacagtg tgttttaaac aataattaag aaaccttgac 240
 gctgaaattc tagtattaaa aatttaatca ttttgaagat aactgggttaa gtgtttatag 300
 gtgagggtct tccatatgtg gaaattacat tgagtttcaa ctaatatgag agacaggcat 360

gcacgcatgc aatccattaa agggaatatg aatatcgga taaaacttat ctccctatta 420
ttaanntatt ttcanaataa ttataatcaa cacat 455

<210> 31225
<211> 498
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31225

cgccgaggcc atgaagcatt gtgacttccg tcgantccag ctccggaccg gggattctct 60
agaggcgaac tgcaagcctg ccagcctaata ctcaaagtgt taggttaaca agccaatecc 120
taagacttga actaatatat gccgggctaa ccagagaatt caacctgagc ctgcctccct 180
tggaacacaa aacaaggtaa caaaggcctg agcaacactt ctacccccca cattcttcca 240
attccattag gaatgaagaa aaaaaaattg aggttcgggg ttgcctccgg gaaacaattc 300
tttcacggag acaatagttg gtgcctaagg gggcatataa gacataaaga acacatcatt 360
cctctttctc ttcttaagta gaaacttcat gaagtcatgc atcatgcaat gacctccaac 420
cattgcctag aagtgtcgtg agcaagcata aaacgattaa aatgatcact tctcaagcat 480
ttcctgacat aaatgtgg 498

<210> 31226
<211> 324
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31226

ccaaccttca tacttgaatc ttgtgatgga agccctctct tgaaatgact ttatgagggt 60
ttaaaccaga gcaaaaattg cttatggaaa tcatccctat gtatactctc aaatcgtgtt 120
ggttatgcac gagctcgaat tacaagatct atgagtcctc gttgggcagc atgaggagct 180
gtaactgcga gctcatgcac ggctttgctg gctcgtgtcg ttagtcctga atgagaaccc 240
cagaatatan ctgcttatga caatataaac taactggtga tgacaccccc tgtcttcttc 300
ccctactgat aacatcataa tata 324

<210> 31227

<211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31227

agctttataa gcgcggggtt gggatactaa ggtcaagtgt tcgcgatatg cgaagatgat 60
 gttccgagta ctttggattt ggtacgacca tgccctcctg atttccagct gggaaattgg 120
 cgagtggaag aacgccccgg catttacgca acgagcataa tgtaaacctt tacggtttta 180
 aaagctctat agttgggcct aggctttaga gttntcctt tgtaaggct ttgtgtcttt 240
 tgtttttgaa ttataatac aaggatcttt ctccatctgt tcctatgtct ctaccattc 300
 tcattcattt gcatgtntac ttcttntct gaaacggcag atccgatgac gagntccccg 360
 aagggtactaa tacctgggac ccgcctatcg acttcgagca agaaatgaat canacggaag 420
 atgaagg 427

<210> 31228
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 31228

tctttatttg aacgactgat atttgaattt aaggaaaaaa aaatagaagg gattaataag 60
 aatattcctt caagggcact atcgtcgcag aaaaggagca catgtaggta tttggattat 120
 cttttcctgt ctaaccagag tgcgctaagt tgcaccactt ttagttgaga taacgatcat 180
 ttcaagactc ggcgttaatc tcatactgaa tccttcattg aaatatataa aagacgtctc 240
 atgtccagaa tttttaggaa tgaagaatat taagtgaata tgatcaaaca tctctgaata 300
 gaaactctat taaaatcatt ggacgatata ctatgcactt aagcacttca 350

<210> 31229
 <211> 297
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31229

tttgttcctt tattnttcta tgcaaaagnt tctggtacat aactactaca attttgctgg 60

catggagcgg tgacctggtg atatgtgctg cttttgtcat acaatggcat tgttgatgac 120
acatttgcat tgtaggctgt aacaatgtgc aagcgcatgt gttctcctct ttacataatc 180
tggcattctt gtatgtttgc tgattgatga aaaccactta tacaacaaat gtggatggag 240
tggatacata tatagatgta tgcctacct ttgtttagta ttgctctagc aaatctc 297

<210> 31230
<211> 318
<212> DNA
<213> Glycine max

<400> 31230

cactgccact gctgaatctt gattaccttg tgccacttgc atgaatgtat ttctatacct 60
ataaaattat accttattaa aatggaaaaa ctttaatcac tatttccttc ttctaattatt 120
tcttgagtaa agtatcaaat tagttcttta cttttggagg cgttgtcaat ttgaattctg 180
aaacttaaaa aatgtcaaaa tgatcatoga ctctacattc cgtctgtcac attagcttct 240
gccgttagta gtctcttaac actgttaata aatgtatgat gtggcacgtg aacgcatacc 300
tggaactttt agatctaa 318

<210> 31231
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31231

agctnttcat attatactgc tgatcttttag ccaacacata attactagat ttctaacaat 60
atacatcaaa tagttaacta gattttgtta tactttcttt ctggtggcag atgtgtgcta 120
agacttgggg caagtgcctt ctctacctta aaatttattt tggaatatgc attattggtc 180
cactaaatat tnttaatttc ccactaatca ataagttata taaacatgga aaaaaataa 240
aattttgtta cctgtaaact acaagataaa aaattatatt attttgaacc ccagacctaa 300
gaaacccct tactctnttg tctattctgc ttttggtatg tgagagtcac tgcctatgca 360
tanaatttta ataagaaatc agttgtagat agtaacttct tgatttcnc tgtanaatat 420
ttcacatt 428

<210> 31232
 <211> 261
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31232

 ttagtcacat taatcatagg tgacaacggt aacatcttcc cttagattcg acgaccacag 60
 acgacaatga catccccccg gaaatccggt ggtgacaacg acattgccac ggagatctat 120
 tgacaatgac aacttctatg gcttaagcaa cttaaacatc acattgttca tccacagntt 180
 aatgggtaag tttgagccat cgtggagggtg atacatgaag acatgggtga tattgtgtgg 240
 aacatcctga aattttctta t 261

<210> 31233
 <211> 328
 <212> DNA
 <213> Glycine max

 <400> 31233

 cttgattact ttaaagtta ttgacccccct ccaaagatattttatggg gactgaattt 60
 tgataatttc cacaaacttc atttatgcta tcaactaaat ttccctcatt ggatcattct 120
 aattttaact acacaaatga taaaatattg aagttcctgt tgttcagtaa tattttaaaag 180
 ggaaagtta ataataatta aatacattag aaagtattta aatacgcattg tgatgagtag 240
 cttatattaa caatttttat ataaaagatt atattatctt ccggctatgt atgtcagaac 300
 actcaattag ataacaaca caacaatg 328

<210> 31234
 <211> 447
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31234

 tgtgcagatc gaatcactcc cgcattcttat ctctatcatg tattctttct ttctttaccc 60
 actcctcacg tttgggtttt tagggaaaaa caccataact aaacgcgcca caaggcatcc 120
 ctatcgcacc agatccaaat ctacaacgat gggatgatcaa gaggagacac acgaacatat 180
 gaaagccgac atgtcggctt tgaaagaaca gatggcttcc atgatggacg ccatgttatg 240

aatgaggcag ctcatggaga ataatgtggc caccgctgcc gctgtcagtt cggctgccga 300
 agcagaccca actctcttgg gcaactgcgca ccatectccc tcaaakatag taggacgggtg 360
 aagggacaca ctgtggcatg atggcaaccc tcccctanga tacaaccgag cggcttaccc 420
 ttatggattg ccgcccact actcacc 447

<210> 31235
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31235

caggtttgc agcttgtant gatttcgctc caattgaagg gttcctctca gtgtgggggtt 60
 tcaacggcgg tttgaggcaa ccaccaatgg ttgtgggtgg tggagaataa gcttgggaca 120
 ttggggaagg gttttgaaa aaagaaggag aaaggaatgg ttgctttcca aggctacacg 180
 aaaaataaga cttgaaacac tcaagtgttt ctgctatcgg gaaaagaagc ttttctcaca 240
 caccacaaga catatcgag atcgcaacgg ttagagccgt ggaaatatgc tctatgaacc 300
 tccagaccaa atttcaataa gatccaacgg ttaacgaatg catgacgggtg attt 354

<210> 31236
 <211> 297
 <212> DNA
 <213> Glycine max

<400> 31236

ccttatcgac gattaacaac agcttttaat gaaaggcagg agaatgaatg cccccgaaa 60
 ccattaactg gaaacgaagt tcatgattgg gtaaacgaca ttgtaaccgt gtttgggaag 120
 tcccatttga agacatcatc togcaacaac atgtggaaga aacgcttaat attctttgat 180
 cttccatact ggtctgatct acatgtgcgt cattgtctag atgttatgca tgtggagaaa 240
 tatgtgtgtg atacgttaat tggctctctt cttaacatta aacggaatac aaatgat 297

<210> 31237
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31237

agcttttggat tccttcaaac aacaataact ttttactcgg atgtctgatt gacacctgta 60
atatatccag acgctcgaaa ttgaataccg aagctctgag caaattcaaa cgacaataag 120
tttctacttg tatgttcgat tgactctggg aatatatcga aacgctcgaa attgaagacc 180
gaagctctga gcaaattcaa acgacaataa ctttttactc ggatgtttga ttgagtcccg 240
tactatatcg agacgctcgg acttgaatgc cgaagctctg cgcanattca aacgacaata 300
acttttttcc tcggatgtct gattgagtcc cataatatat cgagacgctc ggacttgaat 360
gccttagctc tgagcaaatt caaatgacaa taaatnttta ctgggatgtc taag 414

<210> 31238
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31238

acacatagaa tactaagctt cggattcaag tccgagcgtc tcgatatatt acgttgantt 60
tgtctgacat ccgagtaaaa aagttattgt cgtttgaata tgctcagggc ttccgtaatc 120
aatttcgagc gtctcaatat attacgggac tcagtcagac atccgagtaa aaagttattg 180
tcgttggaat ttgctcaaag ctgtcgcatt caagtccgag cgtctcgata tattacggga 240
ctcaatcaga catccganta aaaagttatt gtcatttgaa tttgctcata gctaacgcat 300
tcaagtcga gcgtctcgat atattatggg actcaatcag tcatccgagt aaaaaagcca 360
ttgtcgtctg aatttgctca tagcttcggc attcaagtcc gagcgtctcg atatattacg 420
ggactcaatc 430

<210> 31239
<211> 412
<212> DNA
<213> Glycine max

<400> 31239

agcttattaa aaactcaagg tctgcccttg gtactcatat ctccaaaacc caaggtccac 60
ccttagtaca tattcttgct aaaccaaggt ttgcccttg gtacatacct ctacagaact 120

cgagggtaccc cctcagtcg cttacatgta gcaactacaa tgaccatcgt caaggggtcca 180
 agttcaacca aacgaactac caccaccacta ttttgcaaga cttttaatta ggtcaaaaacc 240
 acacctactc ctcataacca tcagagatct aaatgtagat caactctaata ttgttattgc 300
 gatttgatta cttttttgtt tatgggtgcc tatgtacgaa ttcgagtgaa gaatatgttc 360
 aattcacttg cattgtcata aaaccacat gtttaatatg gattataatg ac 412

<210> 31240
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 31240

atctgatcat catgctttga taaatgcaaa aaatttgggg caaatgatga aggtgagaat 60
 gatggaaaaa cccatgctgt gactgccatt cttatacagc ccagtttccc accaacccaa 120
 caatgtcatt actcagccaa tatcaaacct tctccttacc caacacccaa ttatccacaa 180
 aggccatccc taaatcaacc acatagccta tctaccgcat ttccaatgac gaacaccacc 240
 ttttagcacat accaaaacac caaccaagat atgaattttg cagcgaatca gccttgagaa 300
 ttcaccccaa ttcgggagtc ctatgctgac ttgctaccat atctacttga taattcaat 359

<210> 31241
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31241

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 gagagcttcc actaagcgca acactcatag gctaagtgcg aggaagactc tggaagaaga 120
 tgagccatac aggttcgcta agcgtaccgc ttcattctac taagcacacc gcttttagttc 180
 atttgctaag tgagaaaggc acgcgctaag ccaaaattca ctaatgtgcg ctaagcgcac 240
 gagcacgaac aaggccacct atntaagcct tanatcagat tttagagagg gagtttggac 300
 tgggattcag agctttgcat gtctagagat tctacagaga gaaaggtcca agtgctagag 360
 agtnttgaga gattttgctg tgtgaagatc tgcagagact atagcttgaa caagagtc 418

<210> 31242
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 31242

tgatagagtt atcatcacat gacatTTTTat tggcactgaa taagttgctt tcgaagcaac 60
 atgagattgt aacagaaaaca ctcggtaagc tgtcaactaa gttgtctatg ggtcaaccta 120
 cacactcttc tatTTTgcag gttacagggt ataccatctg gggtgaggct catgaaacaa 180
 gccaatgtat tcccactgaa gaaaacactc aataaattca ttatatggga aatcaacagc 240
 gacaagggtat tactcaagga ggattTTTcag gcctccagca gggtccttat aatcaacaag 300
 gacagtggag gacacaccct ggcaatcagt tcaataaaga ccagagtggg ctttcaaaca 360
 ggccaatcca acaaggacat aacatattcc agaggactac taagctggag gagatcttga 420
 tctcagttat gtaggtaaca atatcaaatac ata 453

<210> 31243
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31243

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 aatgcgtaac cattattnta gttatcctaa gtatagcaag caagaagtca atcaactntg 120
 tgtggttttt gctaattgca tgtgttaccg tgcaactaat aaaacaaatc acaactcagt 180
 gcgcattatt tcaaaagaaa gaaattaaca tctacatta atttaggtgc aatgtgccca 240
 tcaccttggg ttgttatgaa gatgcatgta tgccccacag gatgtggtaa accattatgc 300
 tatagagttt aggtgttgca catctgcttc aaatgttctt tnttcaagta tttgatcccc 360

<210> 31244
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31244

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cggatagcaa ccaagacatt ttcgcagtct cggtcggaag acgctgacat ctctgagaaa 120
 ggtgcagatg atgacgttag tcaactgcatg ctatcggact cttgattctg acggataaca 180
 aatgagactt tttcgcagtc tcggccggaa gacgctgaca tctctgggaa aggtgcagat 240
 gatgacatta gtcactgcat gctactagac ttttgagtct gacggatagc aaacgagact 300
 ttnttgagct ctcggccgga agacgctgac atctccagga aaggtgtaga tgacgatgct 360
 agtctctgcg tgtcaatggg ctgcttgcc tctagctgac aaaaggtacg gataaccata 420
 aggtatctcc gcatatcat 439

<210> 31245
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31245

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 ggtgattttc caccatggag atgcagcgaa agacaaagaa gaagaggtga gaagaggcgc 120
 catccactat ggaacaagcc atggaagaag gagcttcacc accaagatga gccttgata 180
 agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagaagg 240
 gggagcacga aattgaagga ataaaagagg gagagaagtg gaactttgaa gtgtgtctca 300
 taagactttt attcatcaaa gttacaacaa gtgttacaca tgcttctatt tatagactan 360
 gtagcttctt tgagaagctn tcttaagaaa acttccttga 400

<210> 31246
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31246

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 ccaaagttgt tggatgactt ctcaactaac tacttgcca cttgaccac ctggatttca 120
 aagtttttca gggctgattc agtactctta tggttggaca tggccacttg cataaactgg 180
 gctattgtct cctccagttt ggtggctctc tgaaaaatat ttggcccttg ttgaggtggc 240

ctgttggaag gtccaccctg gtccttattg agttgattgc caaggtgtga tcttcattgc 300
 cettgctgat tatagggacc ttgatggaac cccgaanac ctncttggtg tatecttgte 360
 tcttggtgatt tcccatgtaa tgaactctct gagtgtgctc ttcaatggga atgcaatgac 420
 atgattcatg 430

<210> 31247
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31247

agcttggttc atcatttatg cgagacatag accaacaatgc tagccatcat cagcaagtac 60
 caagaagaat taaatctagt cacgaccac gaacataaag tggcggacga gtatgcccga 120
 gtgtacgcgg aaaaggaggc taggggaagg gtgatcgact cgttacatca agaggcaaca 180
 atgtggatgg accggtttgc ttttactttg aacgagagtc aagaacttcc ctgattacta 240
 gccaaaggcca aagcaatggc ggacacctac tccgcccctg aggagatcca cggactcctc 300
 agctattgtc agcacatgat aaacttaatg gccatataa ttaggaactg ctagaagttt 360
 gtatttgcac tcagatcttg actagttata actttttgaa taacatgagt ntatcccacg 420
 tttttac 427

<210> 31248
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31248

tacacttcaa gcatacgggtg tggcgtataa cttctctctc ggcaaagtga tatggaaagg 60
 ccttttggtg ttaaatttat gaggtttttc ttattgcctt ttttttggca aaaattgaag 120
 cttcgtgttg tttatggtct gaacagatca agctgtaaat tattaactgt attagctttc 180
 ggtagtggtc tctcccaa at ggtttacaat tccatatttt ntacaatgct tgtctttgag 240
 gcccaaattc atttacattg gattctatct agactcatta atattttacg ggagaaatgc 300
 taccaacaca tgtaacattc tttatatcgg tcgatatttg ttggatattg ttcaacaatc 360

tt

362

<210> 31249
<211> 350
<212> DNA
<213> Glycine max

<400> 31249

gaagaagaag aagttctaga agatggttca aaaggtgtgg aaaaaggtat atcaaggtca 60
taaaatgccca gtgaagggct tgcttttata gactcttcat ggctggtcaa gaaaaccatt 120
gaaagaagta taaccttgag aaaatctaaa gaaaaccatt ggaagaagta catctcttga 180
tttttattca aaacttggtca ctggtaatcg aataccaaaa ccatggaatc caatacacia 240
agcttttttat gaaaagatat gactcttcac aatctaattt gaatttcaac gttcacatac 300
actggtaatc gattaccaat atattggaat cgattacacc catttaaaaa 350

<210> 31250
<211> 248
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31250

tcataataga tgactagaat cttctcatta tcccttcttt ccttgaagaa acatttggat 60
gatttcttcc atctggatc attgngtgtt tctctacatc ttctgatct ttctgcagaa 120
taatgacana tcattctctg tagcttcttc atattcataa tcattcatcag aggaacntat 180
cacactaact acttngatg atgctttang caatgatttg gatgatgaag gtttcttggg 240
cttatgga 248

<210> 31251
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31251

cgctatcttg ngacgcttct atgaaggcta catgctcgat ctctgagcaa gtcctttaag 60
gggaattgcc cctctggag agccgcgacc tactataaca aaaaggtgcg acaaggtccc 120

ttcccttagg cactccccgc gtataatgag gctgaccac aagattattc ttcgcttcta 180
aagtgcgaat aggtgcctcc ttggaagcaa agaaagctgg gttttattta ataggggggc 240
accccgaaact acacggaata ccttcatgca caagagctac cttggactct gtgctataac 300
agctgtctac cttccatgtg agcgcaagct ttacacgagc tgatatctat acactaggtc 360
tcaccccttag aagactttga taatagactt tgcttaagaa cataacttn 408

<210> 31252
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31252

ntaactntta atctcagatt ctttggtttg actgagatcc tttatttggg ttatgaaaag 60
aattccctcc atataattca acgtttgaca cttttgattt gatttacttg agtttataaa 120
aggctcatgc cacaaatttg tggcgctcgc taatcatgtc tgaacatgca aacatgatgc 180
atatgaaatc ttaatatcc aatcttattt ttctttgcag atatatgatg tatgcattct 240
atgattcttt ttacatctt aaacttgata cgctctaagt attttggacc aatgtcaatt 300
gtatatatct ttagcacttc tatgtgagat ccacaaatac gtttacttgt ggcatatatg 360
acgtgcattc tttcatgaat 380

<210> 31253
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31253

tggtgcaagc tntttatgag acctactttt ggtgacttgt ttcaagagaa ggtattcttg 60
gttacaaaca ctaaacacaa gggaccaaca ttccttaagt tcattgcaag aagcaagatt 120
tgcttcttgg ttgatcactg gacacaaaag accaacgtct tttgggttca ttgcaagaag 180
tggttataac ttcttggttg ttatcaatgg acacaaggga ccaacgttcc ttgggttca 240
ttgcaagaag tgggaataac ttcttggttg taatcactga acacaaagga gggaagtctt 300
ttgtggttca ttgcttgtaa aggaaattta caagatagtg gaaatctcaa gcgggttgct 360

tggngactgg acgt

374

<210> 31254
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31254

ctattaaatt anatagacca gacttagact tattaattag ttgtatgagc cngataggcc 60
tatatatatg tatatatata tatacataca tatatatcta tatatatata tatatatata 120
tatatatact attttttgtt ccaagaagac tctaateggg gtgagattga ctctcctttt 180
cctttaactt gcctctcacg ttctactct ataaaatate aaatatttat cgtgaataat 240
acttttaaaa aggctatcac tccacgctcg actcttaaag aggtcacacc cgacccaaac 300
aagagtctct gataggctat angccagact cagccctca caaatcatcg tagactacgc 360
tcagggtctt cacagtctgg cctgacctat tctcatccgc tattagaatg tgaattacac 420
acactaaaat acactacttt cacactacac ggacta 456

<210> 31255
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31255

agcttttctt ttgnttgatt ttcatacaac aacctgtctg gtttggcgcc tggtagcggt 60
caattcagct acttcaatta cagctctttc ttgggaaacc ctgacctctg tggcccctat 120
ttgggtgctt gcaaagatgg ggttgccaat ggcgcacacc aacctcatgt taaaggtctc 180
tcctcttctt ttaagctgct acttggtgtt gggttgctac tatgttccat tgcttttgct 240
tggtctgcaa tattcaaggc cgggtcactg aagaaggcca gtggggctcg tgcattggaag 300
ttgactgcgt tcaacgtttg gacttcactt gcgatgatgt tttgcattgc ttgaaggagg 360
ataatattat 370

<210> 31256
<211> 434

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31256

tgtatgacat gagaaaatac tagtaaaca ttcttggtga tgggtttggc ttaccgttga 60
gagatgttta aatagttatt aaataaaaaa aatttaaatt tttatttctt ataaatgtgt 120
gtgaaaatgt gtgtccgttt aatctaatat taaactaaag acactctaaa tttttataac 180
atcatctaata ttgggttaatt aaataaagtgt tgtgaattat tataagttnt ttatatttat 240
ttttaattta tatgaataaa aataataata acattgtcac attaattctt acaactaata 300
gaaatattaa ataagtctct tgaatattta ataaattctt aaatctaact attgatcatc 360
attttaagtc ataaactata tgtaatatta tcattcaagt gatctttttt tgaaattgaa 420
ctaattgtgat ttca 434

<210> 31257
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31257

agcttttctnt caggcgatgg gtagttntgg tgacacccaa atgccctccc aggggtgttg 60
aatgatgttc agtgatgaca ctatgaagga atgggttata ctgattgagc cagattcgac 120
ccttgaacag tatcagcccg tgaccgagag tatagtcagg atggtcatta gggttatcac 180
gaatggcttg agcaaggcgt tggaactccg agttagagtc gagggattgc ttgatgtcac 240
tgangaagtc aagctgggga aactaaaga cgagcaagga agcttcagga gatggagctc 300
gggaaagagc atcagcgatc acgttagtgg cgccagactt atactgaatg gagtattcgt 360
aacctagtag ctttgaaaga taatagtgtt gctctggtgt ctgtatga 408

<210> 31258
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31258

tgcanaccan atgctcacca ctgctagacg aaaagttctt tttgtgggtc atataaacct 60
cctgctctaa atcaccatta agaaagattg gtttcacatc catttggtgc aactcaaggt 120
caaaatgaac aactaatgta aagataatac caagataacc tttattagat acaggagaaa 180
atgtctgtgt aattgattca ttctttttaa gtaaaccctt tagcaatgag tcttgctta 240
tatctttcaa tgttgcttaa tgaatccctt ttggtcttaa agacctattt actgccaatg 300
gcctttgccc cattangcaa ctctacaagg tttcaaactc cgttactctg catgaaattc 360
atctcatcct tcatagcatc ataccatana tntgactctt tacaactcat ggcttgctca 420
naagtttcgg gatcattttc aactgcaata tta 453

<210> 31259
<211> 389
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31259

agcttttgca gttgttcac ctttttataa gcttctgcaa gtgcaaata cgattcccca 60
agcaaaagaa caagcttcca caacttatga tccaacttgg atgttggaag ccattctcgg 120
atgtcacaaa cttcaatata gtcagcatct ccacaggcac aaacagaaac attaaaagat 180
gatggtctat cacgattttc attgaattga tccatcacct ccggttcagt gctctgaagc 240
tgacgcatcc atctcagaga cttaatggcc tgtgaaacat gatgtacggc agctaacttg 300
gatgagattg gatcagcaac tgtctgaacc acaggtgtgg aaactggaca tacttcacaa 360
gccaagagc tatcatcagg atacaagct 389

<210> 31260
<211> 428
<212> DNA
<213> Glycine max
<400> 31260

tagcccaata atattgctaa caataatggg aatatctata tttcttactc cctccctaa 60
actatagttc acttagcatc acacttggtta caaagtatta aaatgtcgca acatctttaa 120
tgtatctcag aatattgtta agatcatatt gcaaggtagt aaagttgagt ctacattga 180
aagtttgga tttaatgtag ggttttttag gccttcacct tcatttttcc aactacaatt 240

agcatattag acacaacttt tatcatttgt gt

452

<210> 31263
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31263

tttagctttt acatgaagna actagctcgc ctaggtgagc tgagctcgcc taggcgagca 60
tgttacttca ggcttaagcc accagctggc ctggacgagc tgggcggcaa gtcctctccc 120
tattttggct ataaaagggc gtgggaggct gaaagaaagg gttcaacacc ttgggaaagc 180
atatttcact tanaattatt gaaaagaagg agaaagaaga tgaaaatcaa ggtcgagggt 240
aacacttctg taaccaaata cgtgaatgtt ctttgccatt cttcgtcccg tttcatcgg 300
tcacgtcctt tcgaccgggt atgttttcaa ttttaagctt tgaattcatt ntattgcacc 360
ttangngtcc attcttgctt tgtatgttnt catcttcata ttggctactt tcg 413

<210> 31264
<211> 432
<212> DNA
<213> Glycine max

<400> 31264

tattgggaaa gacactagtc ttagctggga tggtttgatt taaccattgc tgctaattgat 60
gaatgggggg aagccaaaat tcaagtgtgt attatttaac taaaagagtt tctgtgcaag 120
ccagtctttt gttctttatt tgcgattttg cttttatttc tttttctttt ttcttgcaat 180
cttatgctag cttctctaga ctttgctttt aatcatagta tctcattatt gattttcttt 240
ttcgtgatg ataattgoga gtggctatca atcattttac taaattcttg ctcagttgat 300
gcagttctgt tctatctcat tatgtccctt cttgtccttc atttttcgca cgattataat 360
ttataaatta attgcaccat tgaccacta gaacaaccta tttttcatgg aaaatataag 420
aatctgatca at 432

<210> 31265
<211> 397
<212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 31265

agcttttggg caatctgagg agtgggtgtct tcatgctgta aattgatggg ttctggggtgg 60
 aaaatcctaa tttgggtaag ccagaaattc tgcagcattt gcaaagcaaa ttcaaattaa 120
 ttgaagttat gtacaagcac tgcagctttt acaaaaataa gcactgcagc ttatttaagg 180
 cagaaattct gcagcatctg cagtatgtgg gtggaaaaag ggtgggagtg gaactttaaa 240
 tggagaagac actngtttga cagagagctt gagatgacag attgtttccg taatgatgtt 300
 gctggcagca gtattcagat tcacaaaana agatgagtgg atctggaaaa tagaccctac 360
 tggataatat tcggttaatta aaggagagac taaaaac 397

<210> 31266
 <211> 445
 <212> DNA
 <213> Glycine max

<400> 31266
 tctagccaaa tggacttacc ttgattaatt cctttgtatc ccttttgagc cctgggtccc 60
 tttcctttgt ttgaagctca ctacaagcct taagtgaaaa accatgatat caccatatcc 120
 ttaaggaatt ttggagcttt ggaattgttt tgggaataag tgtggggggg tttgtttcat 180
 tggacaactt ggtttattgg ctatgcttca tgatgtattt tgggccatac ttgatgtaca 240
 ttgtatatgg gttaaatgtt ggacatgctg aatgaaatgt tgtttctcaa aggctataga 300
 ataaaaaaaa aagaataaaa aaaaattcaa aaaaagaaaa ggaaaagcaa taaagttgag 360
 tgaataagat cttaaattggc acaaactctt catgggttaat tcttatcttt acttcttttt 420
 attctcttat ctttttctta atatg 445

<210> 31267
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31267

tgcagcttgt tttcaaaacc tttgagagtg tgaccttaaa ctgtgagtga acggctagct 60

gtgagtaata atctttgcat gaatctctga attttagaat gaaatgtata aatgaggaca 120
 tgatgaaggg catgattgta catacacaag ctctctaacc aaaaacctta ccttgaatga 180
 taattgcac ctttgctccc tgtatangct gaatgatttt gtcatgaatt gaaccctgaa 240
 cttaaataat tatctcctaa tacctttggt agattctagg agaacatatg gttcaagaca 300
 acattactct anatttgggg gagaaaagtn gaacagaatg aanagataga tgtaagcatc 360
 agcacacaca ac 372

<210> 31268
 <211> 289
 <212> DNA
 <213> Glycine max

<400> 31268

atatatatat gacacatcag atgaggataa aaaaactcaa tttaaatttat gattgtggta 60
 tttcttccaa tagtttggtg tgagacaaat ctaaaatctc catcattacc atgcttgata 120
 gctgctaaag aattgttgag gtaagcatgc ccatgcctac ttctatcagt ctaacatggt 180
 gaaatgtcgg agcttcgtgc atcaagcaat cctctgggta tattttataa aagaatcagt 240
 tctattacag aacagtataa ttgccacgaa tattctttct tgttttatg 289

<210> 31269
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 31269

attcttaata gaagacctta taaaaaaaaat taaaaaaaaa atctttatga actatggaga 60
 aaaagaaaac taaatctaaa atatcttaaa gtgtgggggt ggctaataaa aggtaatatc 120
 cctattaata agaaatgaaa aattgaaaaa aatggtaatt ggattttggt ggatattttt 180
 tacataatac tacttataga ttcttagttt gtaattcaga agtaactgaa atttctaata 240
 ttactattat gcaatctaga gatgttactt cctttgaaaa tctttttcct taacaaataa 300
 atccgtaaat ctttatatgg ttgaaacaa actcccaaag cagtacacaa aaagttgatt 360
 aagttattct tt 372

<210> 31270

<211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31270

ctaagcttct aaggaggtga gcttagttat gagaggggtg tgtgtatcta atctctagct 60
 tctcaaggaa tctttctcca aaaagcttct caaggaagtt ttctcaagaa agcttctcaa 120
 ggaagctacc tagtctataa ataaaaacat gtgtaacact tgttgtaact ttgatgaatg 180
 agagtcttgt gagacacaac tcaaagttca atttctctcc ctttttcttc cttcaatttc 240
 gtgctctccc ctctctcttt ctctccctct ttcttttctc ccattgaagc atcctctcca 300
 agcttcttat ccaaggetca tcttggtgct gatgctcctt cttccatggc ttattcccta 360
 gtggatggca cctcctctca cctcttctnc tttgtcttcc gctgcatctn catggtggaa 420
 aatcaccatt aaagatctc attgaagctc 450

<210> 31271
 <211> 311
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31271

taagcttttt tgctcgnatt aagcgcacga ncgggacaca ggtctagaca ctgaagactt 60
 tggttgatct attgcgaaag caagaagcaa actcgttctt gacagagccc ttcttaaact 120
 cacacaagct ttctgaatat ctcttgatca acttccaatc aattatggcc tttaaatacg 180
 gtacaccgat atctaattat catcctaate gatgacaata cactaaagag aagcctaatt 240
 gatacgacca taactaacag ttatgctaag taataacaaa aatgatatcc ctaattataa 300
 catcttatct g 311

<210> 31272
 <211> 240
 <212> DNA
 <213> Glycine max

<400> 31272

attcccagaa tgaacttggg acctttgccc acctatgcga gatacaaatt catccgatac 60

aactagacca catgccttat tatgcaaatt ctgtagcttg cgagttatat taataactaa 120
 caaatccatg tggagaaatt atatacagca tagcctgaca ttgagacttg gattctgcgt 180
 gatacacttt taccacgtga caactctaaa atggagcggt ctctttatca ccgcaagctg 240

<210> 31273
 <211> 413
 <212> DNA
 <213> Glycine max
 <400> 31273

agcttattaa cagttgttgc aacaattata ctatcatttg aaaaaaaaaa tgtgaaatca 60
 taggagcaaa attggaaacc ttaatgccat gaatcattat ttgtttaatt gattggaaat 120
 catagataac agtatttcag taagacagta aatgagtaaa gagaaatatg tctttatctt 180
 aatcctacgt ggaacctaat aaacacaaat agaaagacaa cacatcttac tatcaaaaca 240
 atccatatga gaatttatta aactttttga tgaataacct tcgtttgatc ataacaattc 300
 gtaatagtca tttttgagat attgataatt aattgtaata tcattcgact attcttagga 360
 tcattgatta tacctataaa taatataaaa ttttttagt cgtcaatgat cct 413

<210> 31274
 <211> 213
 <212> DNA
 <213> Glycine max
 <400> 31274

ctatcagatt catccgcgcg agaatgcgaa tcgaaaaacc ctctttgtc cctctccctt 60
 ctctcaaacc ctctccaga gggtttcttc gacgcagccc aaatatcagt ttcgtcagcg 120
 cgcgaaaggg gaagctcccg attggatccc ttaccccaaa acatttctgc tggctcgtca 180
 aaaccctaatt gaacccacg ggattgaaga ctc 213

<210> 31275
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31275

agcttttctc taaatttaaa atatgcatca aacattgcc aagaggtaca agttgatgat 60

tcattggctat ggaattgaag atttggccac ttcaacacac atgccttgaa gttgttacat 120
 gagaagaaca tgatgagaga tcttccaagc ataaaggaga acaatgaagt gtgtgaagga 180
 tgtctccttg gtaagcaaca ccgatttctt tacgcaacag gcggagcatg gagagcgaaa 240
 gatctattgg agctgataca tacggacgtt tgtggaccaa tgaggacgcc atcacatgag 300
 aacaacaagt acttcatact cttcattgat gacttctcta gaatgacatg ggtatattnt 360
 ctaatagaaa aatcaaaagt ctttggagta ttcanaaagt t 401

<210> 31276
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31276

ttgtgccana atcccaactc accataaacc ttgacccggg atgagaattt ccatcgtcgc 60
 cctcggaaga aaacaaaaaa agaaaaagaa agttcccgat caaagatcgg aagaaaacaa 120
 aaatagaaaa aagttcgcga tcaaagatcg gaagaaaaaa aaagttaccg atcaaagatc 180
 ggaagaaacc accacttgaa gtggtcctct ccttttgatt gccaaccaaa atcttgtgca 240
 ctagtgacat tctcgtcccg cactaaacaa aaacagaaaa gggaaaggcc aaaacactca 300
 gccaaatttc tcacaaaac accattcccg aaaatgtcct attgatccat gatcatgcat 360
 gtaatctttg atttgatagg aaatgatttt canaatcaag tcatgacata tctatgggtt 420
 ggaattagga taaaacactt gcctatgtga 450

<210> 31277
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 31277

tgtttaaadc attcaaataa tatagctcat tatctagcac taatttgctt atttaattaa 60
 acacaggcat ttaagtcatt gttaaacaca ataaacttca atcatttatg attacgcatg 120
 attacacttg cacttgta ca tatataagca ctcttctgaa agattaaacg tactgcccgc 180
 aaactaggcc ctctcccccac gacagaaact atcatgtggt ctacactcta aactatatag 240

actgtaggca gtattacatg acagataaat gatgctaatt gttcatcaat tgcaattgta 300
aatgttacat atattttcgc gtattgtagt tgagttgtct taaaaagaac actagttcat 360
gtcagtagat actctctcaa cctgactat tcatagtact ataagttgt 409

<210> 31278
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31278

cgcacgtcga ttgtgatatt ccgaatgaga agaggggtgat ttcctttgag atcctggtag 60
tccgccgcat caacgttggc cacatnttag ccaactatag acatcatgtg agtgaacagt 120
aattagatta ctgaaaacac gtaattctgt gcgatgtaac ttgggacaat tcctttgagt 180
atgtctacta ggctagatac actggcgata catatggatc ctattatgat tgacattgga 240
agaatataca atgacgtacg gcatattcta actcagatga taccatatca actgtgtgag 300
aaaagagctg tacgtgacct ttgaccggtt aatgacgcat catttatatt tgttttgtat 360
caaattcact cgtacagatc cgccaacata tataagaaca gtgtatgatc gtagattaac 420
aactgcttac cggatcccga cn 442

<210> 31279
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31279

agctngtaat attgaacaac ggaagctctc gagaaactca aatggtcata acttatcaca 60
cggacgtctg attcagccgc ataatatatc gagaagctgg aaattgaaca acggaagctc 120
tcgagaaaact aaaatggtca taacttttca caggaagtc cgattcaggt gcataatata 180
tcgagacgct caaaattgaa catcggaagc tctcgagaaa ttcaaattggt cataacttgt 240
cacacgaatg tccgattcag gcacataata tatctagatg ctcgaaattg aacatcaaaa 300
gctctcgaga aactcanatg ctcataactt atcacacgga tgtccgattc aggacataa 360
tatatcgaga cgctcgaaat tgaacaacgt atgggtgtcga gaaattc 407

<210> 31280
 <211> 443
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31280

 tgaatttgac aacagaagct ctgagaaatt caatgggttat tacttatcac acggaagtcc 60
 gattcaggtg cataatata cgagaccctc gaaattgcac aacggaagcc cttaagaaag 120
 acaaattggtg ataacttttc aaaccgaagt ccgattcagg tgcataatat atcgagaagc 180
 ttgaaattga acaatggaag ctctcgagaa attcatatgg tcataactta tcacacggaa 240
 gtccgattca ggcgcataat ataccgagac gctcgaaatn gcacaacgga agccctcaag 300
 aaattcaagt ggtgataact tatcacacgg aagtgcgatt aaggcgcata atatatcgag 360
 aagcttgata ttaacaacgg aatgtgtcga gatattcaaa tggtcataac ttatgacaca 420
 gaagtccgat caggcgcata ata 443

<210> 31281
 <211> 416
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31281

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 ccaagcccct actttcgagg ggcaactccc accttatgaa gactatcccg ggcaagacga 120
 tggggaagga gatacccatc ttggccccct gctccacctc aaagatccgt cccacatga 180
 actaccccaa ctgaacatag tccgcatat cccggcctca cccacacccg taaaaggatc 240
 tgttcccttt gcggaagata agggaaagat tgaggcgctt gaagagaggt taagagcagt 300
 cgagggcctt ggcaattacc cattctcgga tttggcagat ttatgtcttg tgcccaacat 360
 cgtcatccct cccaagttca nagtaccaga ctntgataag tacanaggga cgacat 416

<210> 31282
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31282

acacttaaaa ctaagcttga gntcattctt gttcttctct ttgttctcat gattttttta 60
ctaacgttga gnttcttctt ctgccttgta gagctagatc aaacatcact tggatgtgat 120
attcaattaa agtactaagg ataacaaagt tgatgggggc aacatttgag ttgctagaaa 180
agacaacaaa aacatcaaga acctcctttt tcaactgaaga atcttcattt gaggtgttag 240
cctacttgga cgcaggttca agttgacata ttaaaataac ctcaacaacc ttggctgcat 300
tggactcaac ttgttcgtta actttttgca ttacaccaga gattgagaga tcaataagaa 360
cacatcaaat atatgatgtg gcaatgaggt gtagcaagca aatgctca 408

<210> 31283
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31283

agctttatgg cttgttattn ttcaatcata atagtagcag gttcgatata ttttcatcat 60
ttgaaaaatt tgtaacagga gatagtgtgg cagaagagta aggatatcta tcttcccaaa 120
gtcttggagg gcaattaggc ctttgttctg gattttatgt catgatcctg acatgtaagt 180
gtatcgtgtt tgagctccaa ttataagctc aacaagcttt gctgtaacat acattggaaa 240
aacagatcag atgcttaaag tagtctatca agctganatg atgatgacaa gaaagtaagg 300
cactaaaagg gaaacaaagc aaacaaataa gtatgaagct cacctgtgag aaatcccatg 360
acaggtatag gttccanaac tttctcagtg ctttcaagtc tttgcctaaa aca 413

<210> 31284
<211> 421
<212> DNA
<213> Glycine max

<400> 31284

ctgcacatgc gtgaagggtct tttcctgcac attgaactac ctatattttc ctaatcagct 60
cattcaatga aatggagggtg ttattgatac caatgccac agtattttgt ttctcaagc 120
gagattagct ctatcttgct tcgttcaata taccttcttt ttgatagcga aaaagacttg 180

atggtcgaat ctaattacca ctcacaactt aggcaaaact ttacgtagaa atgagttatc 240
ctaaaatata aaccataaac caaaagaccg gatcagagaa cattcagact gctattcaaa 300
ctcatacatt taaatgtacc ttgtcaagac ttcatgaaca taagaaacgg taaaccgaat 360
aaagtactga aattggctgt aaagttaat acaggactat cttgcctaca tattttctgc 420
t 421

<210> 31285
<211> 378
<212> DNA
<213> Glycine max
<400> 31285

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gaggttggat caaatggaga atagagatca taatgaagaa gaaaggagga gaagagggaa 120
tgatggtgtt cctagacaaa accgaattga tggattaaa ctcaacattc ctccatttaa 180
aggaaagaat gatccggagg cctacttga gtgggagatg aaaatagagc atgttttctc 240
atgccacaac tatgaggagg accagaaggt gaagcttgcc gccacggagt tttccgacta 300
tgctcttggt tgggtgaaca agctacaaaa ggagagagca agaaatgaag agccaatggt 360
tgatacatgg acggagat 378

<210> 31286
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31286

tgaatcggac atccgtgtga aaaggtatga ccatttcaat ttctcaagag cttccgtagn 60
tcaatttcga gcttctcgac atattatgcg cccgaatcgg acatccgtgt gaaaagttat 120
gaccatttga atatcttgag atcttccgat gtttaatttc gagcgtatcg atatattata 180
agcctgaatt ggacatccgg gtgaaaagtt atgaccattt gaatttgca gagtttccga 240
tngttaattt cgagcgtatc gatatattat acgcctgaat cggacattcg tgtgaaaagg 300
tatgaccatt tgaatttctc aagagcttcg ggtgttcaat ttctagactc tcgacatatt 360
atgcgccccga atcggacatt cgtgtaaaag ctatgacat ttga 404

<210> 31287
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31287

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 gtggctgttc ttgactctgt catcttgaag gtgtacaatt gttgcttcaa gcatagccga 120
 tttgcaaggg actttgtcat atacaatggc tctagtttca accacattga ggttggtgtc 180
 ctttctcttg caacttctct tanagcttta tctccaagca atagaatgat tgcacttcgg 240
 gatttagcaa tcatctctga tttctccttt gagcttagag attcaaacat ctttctctct 300
 cctttaagag cttctgcata gccatgttga atcaagattg cttccatctt gattctccat 360
 aaccgaagt cattttccct tanaacttct caatatcgta c 401

<210> 31288
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31288

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 tcaatngata atgggtggact tctcttagca tcatgggggtg gtggctttgt tctccacatg 120
 ctcaggatca caaaaacaaa gtttgataac atttggttgg cgattttgat ccgcaacatt 180
 ttaaggattg ctccactttg gctcctgttt ttggtgecta gagctgaccg cagctcttca 240
 attcttccat gtaaaagcat gaattcagag gtggctatcg acccttcaga caccaaaaat 300
 gttgaattgg tgtcccttgt acacagtgtt gatggtaaatt agtggaatga aaagacattc 360
 ttttgattc tcaattccaa atacacgaaa ttaccaagcc agtgtagaat taaacgtgca 420
 atttgtttgg atttaatgtg gaaaaaaaaat aagat 455

<210> 31289
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31289

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ttattggaga ggaacattga gctctctacg ggcattgttg atgaatttta cagagagcta 120
caatagaggc agtggcaccg agtactcacc agactctcgg aaaagcaa atagacatcgct 180
ctgggtcaaag aattctactc aaacatctat gacccaaagg atggagctcc aaaatattgc 240
aagggtgcggg ggcattgtgat caagttcaat gcagagacca ttaatgattt cttgaacacc 300
ctgggtcgctc ttgggtgacag agaggaacan ttggcatact cctagtactt gcacacatac 360
ccagaccacc aagcgattgc ggaaccttat gcacacccgg a 401

<210> 31290
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31290

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gacagaaatc gtaaaaaaga aagatagggg acgaatctcc aaaagacaaa gtaagtggta 120
gacggaggta gacgaccgtg aatcataaaa aaaaaaaatg agagaaaaat atatatgaat 180
tgtaaaaaac caataatcga aaatatgcag aattggaacc ttgagaacga caaagggaga 240
tgctgtggtaa caaatcaagg ttttcaacaa agaattttta gacgggtggg atgtgggagg 300
ctgaaatcaa aggcacgtga ttgagtaaaa tattttaatt agaattatta gattaanatt 360
agatcaatgc ataaggattt atgtaactct cttagaatta tatatactgg aatttaattcc 420
ctttctcata tatattggta acaaaacgta ttgtaa 456

<210> 31291
<211> 294
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31291

ttctccctgc ctctatctca atacacacac aagcatacaa aacatgggaa taaaaaaaaa 60

aatagcgacc gaaatgaaat accaatacca cacatccaat tagaaaaaat aataaccggc 120
 cctaanttaa tatcctgatt tctcaatatt tattatttaa gcggcgggac cctttatata 180
 cagtttaatt cggccgccag ctttgtcgtc tctttcgtct ccgatcattc ccgtacgtcc 240
 tttgcagttg actctcattc tctttctctc tctacacctc tctctctctc tctc 294

<210> 31292
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31292

agtaatatTT tattttaaca atnccaatca ttcaaacaaa aagcttacct tatattataa 60
 ccaaattaat catatataat aactaggTca caaaaactac gcaagtggta acaactcaat 120
 caacttagaa catgtttgac aatcaagtgg aaaacaactt ttgagacaaa aatatttttg 180
 caaaagaata aatgcatgtt tggacccaag ttagaaatga tgtacacatg ttacaatgca 240
 cattcaatag ataaaaacaa aaacaacaat cttgatcttt tagtaaaaat actctttctt 300
 taaaagtatt ttttcacctc attgtcaaac atgtacttag aatctcttgt ttttctttca 360
 ttttggtttt acctatttcg atatatacta gagcacactt gttgtaacaa t 411

<210> 31293
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31293

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 caaactctta aatatcatgc accaagctgg aacaagggca aaaggctagg caatccttgg 120
 ctaacaagtc aatagcagat tgagaatcag attttactat aagaaactta aagccacgac 180
 tccaagaaat ctttactcca atgaggatcg ccataatTT agcattgatt acagaacaat 240
 tccaatatt aactgagaat gagaaaatta catttcccat atgattgtga agtaagccac 300
 caacaaaaac tataaaaatc acttttggat ccatcacaat taagcttaaa atgggcacaa 360
 tgcggttgct ccnaaaaat attgntctaa ttattatcct gatcactacc attccctc 418

<210> 31294
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31294

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 ttatgaaaac agtctaagca atgctggtgt tttattgggt tggaactaaa cttaaactatg 120
 gttgtgctac agattaagtt ggacaaggaa aagaaaagtc tctcaattcg agagagaggg 180
 atcggatga ccaaggagga tttggataag aatctgggga cgatagcaaa atttggaact 240
 tctggatgt atgttgcgga cattatcgct gaagtaattt ttgtttgtga tgtgactggg 300
 aatatgttaa ttggagatgt gtgttatttc aacatttgtt gagaagatgc caacaagtgg 360
 agatctcaat ctgattgcgc agtttggagt cagcttctac tctgttatct tgtggccgac 420
 tat 423

<210> 31295
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 31295

acccgggatc tctaagcacc tgcagctgca gcttttgttg tctatTTTTT agagagaaaa 60
 ggccaagtcc agagagtttg agagatttgc tatggaagac ctgagagaac cgagcttgaa 120
 gaggaagctg cctgagaact tagatgagtt gtgaggattg gaagttctaa gtggacagac 180
 atcccaccac tttattcttc atccttctct cttatctctt tttgaaagga agcttccagt 240
 atgggaggta atctctgtgg tcttcttgaa gacttgagac atactgatat ctattaatgt 300
 gtttgtggtc ctatgcttaa cctcttctcc tgctttcttg atcogtgatg ctggttttga 360
 gagcattgct tggg 374

<210> 31296
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 31296

ttgctcgcc tttttttcac aactcccttg agaagccaga gcttagctac ccacacacct 60
 cttattacta atgtcacctc cttgacaagc tctcttgaga acatccctga agaatctaga 120
 gcttacctac acccacctct ctaatagcta agctcacctc cctgagatga gaagctaaag 180
 cttagctact caccctctat actagataag ctcaccctca ttccacaaat acatgacaat 240
 accacataaa agtccttact actcagacta ctcataatgc cctgaaatac acgggctaaca 300
 tcctatacta ctagaatggc caaaatacca tgcccaatag aaggagcaac ctattctaac 360
 atatacaaaa aaagagtggg ccaaccttga cccatgtcgt ctaatatcta c 411

<210> 31297
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 31297
 cctctacttc attcaaaaat ggccaaactc ttgaacaaga agtatgtgtg ccattgaaaa 60
 ccagacagaa aatgtaagaa tgaaagatag gggacgaatc tccacaagac aaagtaagcg 120
 gtagacggag gcagaccacc gtgaatcata aaagaaaaaa atgacagaac aacatatagg 180
 aatcgtgaaa aaccaacagt cgaaaatatg ctcaatcgga accttgaaaa cgacacaggg 240
 agatgcctgg gaacaaatca aggttttcaa caaagaatct cacgacggag gggatgtggg 300
 aggctgaaat cagaggcacg tgattgagca aaatagtcca actataatta ttagagtaaa 360
 accagagcaa tgcataagga tctatgcaac tctcttacia tcatatatac atgaat 416

<210> 31298
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31298

ggtttgcaag cttttacttt ctataacaaa taaatttaaa tctaattatt tatcaaatat 60
 attattatca caaaataatt tcaattactt tatgaataat atcgtaatta aattagtttt 120
 atttttttta tagtaaagat tacaaatatt attcccgagc gataatccta ctcgagatta 180
 ttttgtgtga naaaaatcaa ttagaaaaca taatatcatg aattaaacaa tcttagtttt 240

catagaacca aaaattatca ttacgaaga caatcatact caaaattatt gtggatagca 300
aagttctatt ctattataaa ataattctaa attacttatt caataatata atagagtaca 360
ttagttgtaa ttcttttatg atgtagacca taaatatact tcgcgggagg caccaact 418

<210> 31299
<211> 486
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31299

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tgtgcgtact gataggtacc atgatgtttt ttctgtggtt tgacacaaac cggaggagaa 120
gacactgcaa tggcactcct ctcttttctt attgacctg tagaccataa tcttttcgcg 180
ttcacgtttg tggaggacac gtaattcaac tctgcctttt tctaatacaa ccctgcattt 240
ttccccggcc aacaccccat tcccatagac tgaaggcatg caaccacta gctgttcata 300
tgacaacact ggccaagtgt ctaccatatg gagatcattc tctctcaaca tgggaggagc 360
tacttgtgcc ccaactcctc cattgctgag catattatca aggctcacgc cttttcctaa 420
aatattctga ctcgatacgg caggaccaca tcctaatacgc cgatactgcc tatgacgccg 480
atatct 486

<210> 31300
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31300

agcttattga ggtctccgt cagggttctt atttgttggg acaacaactt cttttgagcc 60
aagattgcat cttgagtggg gagttctaga aggcttctct ttgttgggtc atatgtgtga 120
tcacgaagaa tggcatgata actagctacc atgntttcta tgagttccat tgcctcctcc 180
ggtgtcttta gcttgatatt cctcctgcg gatgcatcta gtaattgctt tgattgtggt 240
cgcatgccat ctatgaagat gtttagttgc accggttcac tctacccatg tgtaggtggt 300
ctccttagca gtccgtggaa acggtcgagc gcctcgctaa gggattcatc gagaaattga 360

tggaaggaag agatttcctt cttgccttca cagtctttga ttctg

405

<210> 31301
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31301

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aatggcaaca aacttgagca atccttgagc tttcaagatc atgacaaacg aaagacaaat 120
tgaagctgtc ttctgaatcc agaagcccta caatcaataa gacaaggagt gagtttcaca 180
tttgaaatca ctaaactatg tcaaacgaag atttgattat gtcaaacgaa aatttggtat 240
tcaagtttca tactcctttc tctactgtct ctgatagtat aatacacatt tattatcaat 300
ctatggacac cattctgtct tagcgttgtc agatatcagc ttttgcgctt tatttaataa 360
acatgccaca tatgtgatgt gaactaaaat atgtcaca 398

<210> 31302
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31302

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gtggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120
aatcaccatt aaaggacctc attaaagctc aaagatccag cctccataga agccccacaa 180
gtttttgtca agaggagaaa gggaagaaaac aaaagaattc tcaggcggtt agtcatttga 240
atcttttggc aagagaaaaga agtgaatgaa gaagaagagt agcacaagtt tttgaacaac 300
gaacttttct tggaagagaa agtattgaac aaaanatcta tganagaaat ctgttgatca 360
tnaaaacaaa tcaatctttt agaatanag gaatcagtct 400

<210> 31303
<211> 407
<212> DNA
<213> Glycine max

<400>

31303

tgttagggta aagtttcacg attgtcatgt gtcacatgcac ttattgttaa ccgtggctat 60
acgagacatc ttgccaaaca aagtcagggt cagcataact cgcctgtgct tttcttcca 120
tgctatatgt agcaaagtga ttgatccagt aatgtttgat gagttggaaa atgaggccgc 180
aattatactg tgccagttgg agatgtatct tccccctgct ttctttgaca tcatgattca 240
cttgattgtg catctgggtca gagaaatcaa atgttgtggc cctatttacc tatgggtggat 300
gtacccgggt gagcgatata tgaagatctt aaaagggtat acaaagaatc tatatcgctc 360
ggaagcatct attgttgaga ggtacattgc agaaaaacca ttgaatt 407

<210> 31304

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31304

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aaacattggc catggtgaac atgcaatttc aaacttctta agacaatcat cgaactgac 120
cttggaagga caataaacca aactccccca ggcattcata acataatctt atgcattttg 180
tgaccaacca nggatttaca tcttgacat tcttgtaaat gtgaaacctt cacaacaagt 240
gggtacactc anganatata gttttcactg cattcattaa tgctagaatt ttatcggtag 300
caataactcc aaagagggca tcatgtctaa gaaaaagact tcgaaaccgt tctatagccc 360
acaccacatt atttagacgt tct 383

<210> 31305

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31305

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cttatcacc atactcggcaa ttagaaaagc ttttaatgga agctaggaga atgaaagtac 120
actgaaaccc ttatgctgaa acaaaaatta tgattgggtg aaagatatcg taagtatctt 180

tgggaagacc ccaaagaagg aatcatttga gaagaacata tggaagaaaa ggtcaatatt 240
 ctttgatctt ccatactggt ctgatttaga tgtacggcaa tgtaaagaca taatgcatgt 300
 caatattctt tgaagtcattg atttccatac tgcattagag gctgtcgtcc catgtgacag 360
 gcgcgtggga tgctaatacc ttncctgtgc gtaaaaaatt ccgaaccctc attttcaaga 420
 tatgcagacc ttcgtc 436

<210> 31306
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31306

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 ttgtactgct gcacttggtt tctatgatac gctatctgct cgttcaagta ttccatgttt 120
 tgtttggggg tgctgttgta attagtggct cccaccgtct tcaatcttag tctcttctta 180
 tcagaagcct cgagttccgc catgtattcc atggcaaaat aaagacttct ggtaaaagaa 240
 acaaactttt ccattttgga gatgatcttt ggggtgtttc gagcacgta actaagctng 300
 cggaggctga tgaggcctag cttgaggctg gcgtacacga tgtccaagcg gctgaagctg 360
 gggtcggagc atttccggcc gaaccgtgag acagtgtctg 400

<210> 31307
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31307

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 aggtgtgaca atgctaacaa gtgtcttttt acaaaggaga aaatgtggaa gttttctaag 120
 aggggaagtt tctttaatgt ttgtctttat tataaaatga ctttcgttct tagctaacct 180
 cttggaggag acacttacct ccttatactc ctccttaacc attaattggt gtcattcttc 240
 ttgggggtag atttattcac tagattcttc cctttttgct tcttcacttg cactagagga 300
 agatgaagaa gtagtctcat cttggctact ataaatgtct tggctcctca taatcatggc 360

tttcttggtg gggcattgaa agtaatgtgt cctttccaag acatttanag cactttat 418

<210> 31308
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31308

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aaaatgatca tttttttaca agttgggttaa cggctctggt tacacttcta agttacttcg 120
gatgtgtttg atttagaaga agaaaataga agataattgt aaaattcaag tagagcgtaa 180
aagacatgaa ttccgtgtga agaatacaca attttctttt atttcttcat tcccacccta 240
atccaaacat cacctcttgg ccttgcaactt taaagcgta tatcaaattt aaagtgtcgt 300
gatcaaagca tgaacacacg atgttttgag gggttatgtg actgtttact aactttcaat 360
gtgattacta cttaaaataa gaaatgttct cttcaaacat gtgggtggat ngatatctatt 420
gatagat 427

<210> 31309
<211> 448
<212> DNA
<213> Glycine max
<400> 31309

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cgatgatatt agaaaaacgg ttagtttcat gccttcacca caccactctt ttctttgatt 120
attgtagata tgtttaggtt tgcgggggta tgaaaaagat catttttttt tttgcttact 180
agtgatggat ttctgatgcc cccacttgga atattatgga atggtaaaat gtaaagatgg 240
tagctttggc taactttgat ggattcctga aaccctctt ttggtatttg tacatggtaa 300
cgttgttggg attggaacat tgtcattcgg tggaaagagg gtccaaaatt gtctggggta 360
tgtatgcact ctggaatgcg tgttttgaat tatttttcta tgggcttatg ggtcctgaat 420
tgttggctctg cgttacttat catttgat 448

<210> 31310
<211> 380

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31310

gtcacaatcg gcagagtatt gagcggcacc accaactcga ccacctatga agatgattaa 60
ataaaaaaga attggatata ttggaatta ttaagaaagg aagagagaga aaagactgac 120
tagaattgcy atgatgtttg aaaccaatag agaagtgaag ccaagtctta gtgattttgt 180
gccacaatc cattgagagg agagttatgt gaaggaaggg attatggata tatataattg 240
gcaccgaaac ctggaacacg ttgntgatg gatgtgcaa gcgtctcgtg gtggtggcaa 300
tacttactag tactatatat gatagatcga tagaatggtg gcttggatat ctgagtttac 360
acttgtctcc ttttcgtatc 380

<210> 31311
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31311

tatgcttggtg ttggtgatta attttgtctg attaccttgn ttgnttggat ttctctcttc 60
tctctttcat tgcgatattg atttcttctt tgctctttct ccattaattg cttatatatg 120
gcattcatat tgtgttgcaa attttcgcca gactccatga aatctggggg gaatgaatgc 180
atataggagg tcaaactact gaatttttgc tctctccgc tacnggtcat acgttgaat 240
tgtccataat aaaaaaattg atccaagaca ataatatgtt acgataatng tatgtgacaa 300
tatggtgtgc gtgtgtttgg ggcgaaatctg caatgtgagg aataagtga ccctgtcttt 360
aacatatagg cagggttgga ctacctaagt gtgttgctgg agatgt 406

<210> 31312
<211> 568
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31312

gagatgagct acacgtactc gaacttactc tcattccact tnaatttctt atattaannn 60

nnnaagcggc gggttgatgc ctgctancac ngacacacac aanactcaag ctggccgctc 120
 tntctctctt tgggtgaggca cacggcaaat ttttactggg gtattgtaat aacaactcaa 180
 tgggcgcatc accaggggtga tgcaaagtat aaaatctgaa tgtaaaatca ttcgaaaaac 240
 atgggaagag gccttgcatc cttgcgccta tgaacaaaag gaaaggatca ctctacttgc 300
 tttggcggaa aatcccactt tggatatcaag cctaaactct ttgaaggcta actcaaagag 360
 gaagctctca gtatctgttg agtctaatac agagagatca aaatggggtt atatatatc 420
 caagagagaa tatgctacca ttaaccccan ccttggtgat gtaattctta accctgtgta 480
 acgcattaaa ctaatatgaa tacttcaatg taatcattcc ctttacctca atgcggatgc 540
 taagagtaat tcatgtaaca tcgaaatt 568

<210> 31313
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31313

agcttttttt gttcgatttt tgcctaaaaa tntacaatgc agttcggcta aggttcttcg 60
 tgcgaactga accgaagttg tgtttcgggc gactggcatg ttctcatttt gtcggccaag 120
 aaaacattag cccaccttgg cataaaaaac atgattcacc gatattgaca ggaaaagaaa 180
 aatgctagcc gacgtcggcc aggaaagatg accgaccgat gtctgaanaa gaagcatgac 240
 cggatgactc cggtcgaaca tttcctaaca gatatcatcc aagtattatt cagggattga 300
 atagaacaaa caatagccga catcggtagc taaatagccg tgactgatat ttttcggccg 360
 acattgcgca atntctttta c 381

<210> 31314
 <211> 566
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31314

tcgctcatcc tcttccatcg actctaagta gcacacaatt tggacgatat ttcnnttnan 60
 nnnnncgcgg gcggnttgat gcctccttgg acanncca ca tanaananac aagctncacc 120

tgcggccata tgcacgcgc ttaaccaaca cactcttttt atatttgatg gctacggact 180
 cgaactcctc ttcgactaac ccggtctttt caagctctgg ctttaaggct tggacctcat 240
 cactctcttc cgaagctcta accacaccgt atctcacagc ctctagatct gggagccaat 300
 ccaatecttg tgtgtcgact ctcatccacc tatgaaagcc gccgacgac ccaacacctg 360
 cttccccctaa gcctcttgtc ctttcttcac gccgcatccc atgccttggc aactccttgg 420
 agcacccctc cgtttgggtc actgaaacca catgcaagaa atggacgatg cctccgtctg 480
 atggcacttc cctcatggcg tagccaagct gcctattgcg aggaccgcat tatattaaca 540
 caacccccag tgcccatcac gagacg 566

<210> 31315
 <211> 390
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31315

agctttatatt gccctctttc tcagtgggga tttcttcttc ggccaaggca agatagttgt 60
 tggcagtgat attattgacc agccctccga aaccttctac cgagatgtct tgggccacat 120
 gggcctcggt caaaccttc actagcagag cccgatgagg ctgagagctc atgagtaact 180
 ccaacaacga gaccctggcc ggagttttgt tgagctgttc gataaccttg aattcgctct 240
 actgaattat acggaggaac tcaactgggt tctctagtga cacctnnctt tttaccatcc 300
 tttntctccg ggaggccttn tgccggaata tctttattcg aagcgtgggg tgcttcgcca 360
 tcttggtcct tcaccactat tctttttccc 390

<210> 31316
 <211> 287
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31316

tactaagctg aaatgacatc gaagctctcg acaattccaa ggtataatan tgcacacgga 60
 aggtcgattc tagcgcatca catatcgaga cgctctaaat tgaaaaccog aagctctcga 120
 gaaactcaac aagtcataaa ctagtcacac ggaagtccga ttccggcgca taatatatcg 180

agacgctcga aattgaacca cacatgctct cgaagaattc caatgatcat aacttttctc 240
acagaaatcc gattctggcg catcatatat cgagatggtc tgaattg 287

<210> 31317
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31317

agcttatata accaccgtgc tccaccacgc tcatcgagta actcatccac cgtgggtatg 60
gggaagcgat cgcgcaccgt gatggcattg agagccctat agtctacaca aaatctccat 120
gatccatctt tctttcttac cagcaagact ggggatgaaa atggactcga gctaggttgt 180
ataaaacctt tcgcgagcat agtagctacc tgttcttcga tctccttctt ctgaaagtaa 240
ggatatctat atgggtctaac cgttcacccg gttgagttag gcaatagatt gatggtatga 300
tctgtggatc gtgatgggtg canggtcgtg ggaggttgga agagggaagc gtatntgggtg 360
atcaatgtat tga 373

<210> 31318
<211> 357
<212> DNA
<213> Glycine max

<400> 31318

atgagaaact tacaaaaatca ttgcttaaaa tcataagagg aattacacga ttatgttaca 60
ttagaaatga aaaactcata agaagataag attaataaaa aaaatgcacc cttgatttgg 120
atztatgatg aaatgacatt gttttataga taaatattaa ttggtagcat tattagcttt 180
tgctagcgaa gaaagtaaac ccataatctc ttctctgtcc attctccatg gatcatggga 240
caactttata tctcattctt tctgatagta cataaaccct tgatgtgtga ttattataag 300
cacgatatat aaggtgcagg gaaattacta ctcatcttgg cttgatactg acatgat 357

<210> 31319
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 31319

agcttttatat aagctgaacc attgtatcaa taaacacaag ttgagtttta ttcagaaaat 60

tagagtttat ctattttatc ttagtgagag tgatcctcct aagttcttga gtgattcgag 120

aacaccctga ctatatcaaa ggactttcac aatctttgtg tgttgccctc accggaaaga 180

gtgattcttt cctttctttc atcttcaacc ttgttctttc aaaccataat tccagaaaat 240

ccacttttgc ctagaattaa ctcggtggcca taactcccat ttacacgctc aaattaagtg 300

attcttgagc ctaaattgaa tntcaaaatg agatctttca gctcgttntg gaatcacctc 360

atttgagacc ctggagcttg agttattggc atttctata 399

<210> 31320

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31320

tgccagaata atggggttga tacagattat tctgctattg ttggttatct tgagaagcct 60

tttgagtctc actagattct actctgcagg ctttttcgct cacaatgaag gcatatgcc 120

acacttctac aatgtgaggg atgtttctga tggttttgat gtcaaatac tctctgatag 180

agttggagaa gtgatagaca agttggaaac tttgcaggcc aagcttgact caaaagtga 240

agaaatggat aaaaacaaag gcacctagtt ggacaagaag tttttaagg atcaaatagt 300

tatgccatct tataatgcta atgttgctct aatgcgggat agggttcccg aaggatga 360

agggatgaag tccgcagtga aaaacgatca tgtgatcaat tntttcatca ctg 413

<210> 31321

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31321

agcttttatct tcaacacaag anagaagtaa taaggaggat tcgattgaaa tagacgaaga 60

tgatgatctt agtctatttg taaaaagatt caacaaattt ctaagagtca gaggaatatca 120

aagaaaaggg cagaagattc atcctctact ccaaaatggt atgaatgcaa tcaacctaga 180

catctaagga ttgattgccc aattttcaag aaaagaatag agaaatttga aaaaaaagtt 240
 tttaatgaaa agaaggctaa gaaggcctac attacatggg atgacaatga tatggactca 300
 tctgaagatt cagaanacga agttgtaaat ctgagtctga tggccaacaa ttatgaaaac 360
 gatgaagagg taacatcttc tgataacaac ttatccattc gcatttgatg aatac 415

<210> 31322
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 31322

ctgataccac tgggtggagta tcttctgtat atggatatat actttgtaaa gaaaaaaaaa 60
 tatagtgtat gaaagaatag tgtcaatatt ttattcatgg actctatata tatagataaa 120
 aaaaatgtaa caaaatttaa atattatcaa attattaatc tcctaaatct aaaagatacg 180
 tcaaactctt atctttatct aaacaaattc ataataattc tatattaaat aatatactca 240
 acgcttgaaa taaataataa attattaaaa aataaataaa ttactccttt gtaaagatat 300
 catacatatt tcaataactt taaacaagaa tttggattac gatcttgtag ataaaaaaat 360
 gattaaaaag gaagactcta cacaagataa ttaatcaagt tgtttgaaat taattatcaa 420
 caatgtccgt ggatactccg tcacaataac a 451

<210> 31323
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31323

agctattaag cgtttctgga caagaggggg cactctcaga aacgttcctg ttggtggtgg 60
 ctgcagaaca aacaagcgta tgaagcggtc aacacacggt gattcttctt ctgctaactc 120
 tcttcttctg tccactccta gcgccagttc aaaccctcct tcgcaacccc acatcgataa 180
 tattattggt tctggctccg ccacaaacca tataaataat atcaaccctt tgctttatgg 240
 tggcgatgtg atgaataatg ttcttttctc aaagttaaataa cttcttcagt ctcagctgaa 300
 tgctcttggg ttacgggttt catcttgggt tagagagaat gggtagcac tacttcnata 360
 acaacttatt tctgtataa ctctatcttt ggttctcttc tt 402

<210> 31324
 <211> 369
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31324

 agctttttgt aatctattac acttatttgg taatcgacta gtgtttgttt ctgaaaaatc 60
 taaagatgta actcttcaaa aaggttttga ctttttcaaa taggttttat gtttttctaa 120
 aaagttataa ctcttctgaa tggccttctt gaccagacat gaagagtcta taaaagcaag 180
 gctctgtttt gtattcttaa tcaatctttc taacaacaat cttgaatact tttgcttttc 240
 caatcaatcc ttacaagcc ttgaaatctc tttgaagttc ttcttcttct tcttttgtac 300
 cacaagcttt ctgaagttnt ctggttctct aaaccttgan aacttgtgct attcatcttn 360
 tcattctct 369

<210> 31325
 <211> 449
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31325

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 gattntgaaa taatgtgtga tgcaagtgat tatgcagtaa gagcagttct ggggtcaaagg 120
 aaaaataaaa tgtttcatgt catacactaa caagcaaggg tttaaatgaa gctcaaataa 180
 attatgccac aactgagaaa aaattgcttg caatagtata tgctttggaa aaatttaaatt 240
 cttatttgat aggatctaaa attgtggttg ttactaatca tgctactata agatatttgt 300
 tagttaaagc tgattctaaa ccctgactta tccaatggat tctattgttg caagagtttg 360
 acttaaagat caaggatgaa aatggaagtg aacattatgt ggcagatcat ctgtccagac 420
 tgaccattga tgaggtgacc acacaataa 449

<210> 31326
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31326

tctagcttgt atagcaacat tatagttgct aaattatatg gattggtgca cctacaaagt 60
tatgggggttg aactaatggt tcctataaat ttgacaaca gctgacctca atctcactaa 120
gcttggtggg tggaacttt aacttatatg gtggaggcca acagtgcaga atgttaggaa 180
cataagctgc tattcaaagg ttactactta gtggtagag gtactcctat ttctaaggag 240
cataccttgc cgccaaatta agctagatat gaaaggctgg atgttctgcc acttaagact 300
agtatttgtg actctattat gttctcacta catgactgac ttactataca tttaaacaat 360
ngaaatntct tctagtatag ctctttaagg tgttctacat a 401

<210> 31327
<211> 357
<212> DNA
<213> Glycine max

<400> 31327
tagacatgat cggtagatga ttcgtgactt gtatgaaaca attcgggaaa cattggatga 60
tggaacaga ggttgtcaaa ttgcaactct atgcagaact ttgttgatga atatgcgcat 120
gcagaagatt tgcataagg ccagacaaat gctatgtatt ttctgatagt ggaagagtcg 180
acaaaatgag gtctggatgc tggctcgcca atcccaatgg tgaacatata aacttatgta 240
cttaaaactt acagtgagat tttcaaggcg atccatcggt tcacgaattg gaacgataga 300
aatggtactg tggctctcaa gagagaacaa gctcgcaact tggatcgagc tttgggc 357

<210> 31328
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31328

agctttcagt aaataaactt ttatttagta gcttataatg ttttttaaaa aactacttga 60
actaacgtct tttaaaataa taatttctag ttntatatat ttttttattt ttatccttaa 120
tatatttatc aagtttttta ctattcttt taaaataaat cataattttt ttttagttat 180
tttatatttt tcacctgata aaaaaagtc aaaaactaat taaaatatca tgtcaaactt 240

tatcttaata agttaattnt tcagctttca actataatct tcttttaact ttgactaat 300
 tnttcagtta tttttgttaa atataatctt gctccattga tcctataaat ataccgtatc 360
 attaatcagt aattaatatg tcatcgtctt gcacatggac tac 403

<210> 31329
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31329

taaaaagaat catgtaatag tagntntgtg atctctgatt taactaataa cttgtgaata 60
 gcatattcac tcttatctga ttttttgnta ttatctatct taccctatct ttcaaggctt 120
 ttggcactaa gaaggcccta tggttgtttc cattgttttc aaaagaggat ttaaacaaca 180
 tacctgcact aaggggcatt gagttcccta cacgttcgga tgttgatgta tgaaagctgg 240
 gtagcttata ggtttgaaca ttnttttcat taaatgatgt catttatgct tacttcatga 300
 cagtgcagcg tanggcatga aagtaatact ctacttgatt gctgatgttt taaattatag 360
 aatngtccag tagatgtata tatgtaatgt tcgattcaga atgtttgatt attcttataa 420
 tctaagaacc tgtgatct 438

<210> 31330
 <211> 406
 <212> DNA
 <213> Glycine max
 <400> 31330

agcttctgtt gttcaatttc gagcgtctcg atatattata tccccgaatc ggtcttctgt 60
 gtgaaaagtt tgaaccattc gaatttctgg acagcttccg ttgttcaatt tcgagcgtct 120
 cgatatatta tgtcccaaaa tcggacattt gtgtgaaaag gtatgaccat tcaaatttct 180
 tgagagcttc cattgttcaa tttcgagcgt ctagatgagt tatgtccgcg aatcggacat 240
 cctatgaaaa ggtatgacca ttogaatttc tcagagctt tcttttgtca atttccagcg 300
 tctagatgaa ttatgtccgc gaatcggaca ttctatgaaa agttatgacc acttgaatat 360
 ctcgaatgct ttccgctgtc aatttcogagc gcctctatat tttatg 406

<210> 31331
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31331

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 tcttcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120
 gctttccagg ttctgctatc cagtgatttg aggaaggcca ccattcttgc tttccaatat 180
 tcatagttagc ttccatcgag aattggtggt ctgttccactg gtccgccttc tttctccatg 240
 ttcatcagaa tttatctccc tagatctcac tctgtgattt ccagtgttgg ctctgatacc 300
 aattgaaatt ctgataccag gggacagatg tcgtacaaga tgtcagcaca tcacgcttca 360
 gaacatgcag attatatgtg tccgtatgaa cagattatac aagtaaataa cacaagagaa 420
 ttgtgtaccc aggtcggtagc tacctcacct acatc 455

<210> 31332
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31332

accttgaatt aattcctttg atagccctt tgagcctatt ttccccttc tttggtttga 60
 agctcattac aagccttaag tgaaaaacca tgatatcacc ttacccttaa agaattttgg 120
 agctttggaa ttggtttggg aataagctgg gaataagtgt ggggggggat gtttcattgg 180
 aagatatgat ttttggccat gcttaatggt ttattttggc cttgcttgat gtacatatat 240
 tgcctagttc tttctttaat cttcaattnt gtactgggtc aataaaaaaa taaanataat 300
 aaaaaaaatt aaaaaaaaag gtaaaaaataa ttcagttgct ggcaaattct gcatttcgta 360
 ctattaaataa aaaagaagta gaagaaaaga agtgaagttg aat 403

<210> 31333
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31333

tataatgaaa tgataaactt caactttatn tctgtagaat atctttacaa caaaatgttt 60
gtaaaccata agatatagaa cataagtaag actcccacta aactaaggta ccatcaagaa 120
ttacatccat atgagtagtg tgctcatgaa aaaaacttta agtgtcagac ctttagtaag 180
tgcacagct agcatggaat gagtccctat atgttctata gaaatctgta ttttttgagt 240
tctttattta acaaccaa atctttatgac aacaaat ttttgggtg aatcctaaat 300
aagatcgcta agatgttggtc ccaataaaca ctgatgact tcttaatgtt ggcaacaaca 360
actaagctag ttacaataat ntaaaagtca taaattctag tatgatgtct catagcanaa 420
atattaac 428

<210> 31334
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31334

acgcttaact taaacaacat tataatcaca acatattcaa aaaaccaaaa cccacaata 60
aaactctggg aatgtaagta tttagtcttg cttttatcaa gttctaaggc aacagtatat 120
ttcccaatgc ttaagtcacc taacagtaca cacaatggg ggatcaaacc aagagcattc 180
cataattaag cattgaaaga agcattgaac acacaatata caattaatta gatattaaag 240
ataattacat caacttttcc ttagaaatct ccaactanga tgnttagcca gccatacaca 300
gaaacncaa cacaatgag atagagagta tagaataatt gctgcttaca caagaaaggg 360
gatccnntc tctcttcttg cacctcaca tcac 394

<210> 31335
<211> 361
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31335

tactaagctt ggacatcaac taacttcatt ccctatgcat attactatct ctttatatct 60
ttgacccgaa atagnnggaa tggtagagatt atgataagat aatattgaac atatcatgtt 120

ttttaagagtg gctgatgtaa tatcttgcat gttggagtat aagtataagg tgaagtccca 180
 catcgggtta aaatggacaa gttgagcacc atataagtga ggagaagacc cataaaccag 240
 agccttaagg ttttgggtta aagtgtggtg tcaagttcac ttatgtggtt gctcatgatt 300
 cattgatgta aatctctcca atttttacct ccgctcagtt gcacaacaat tggattataa 360
 g 361

<210> 31336
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31336

agctttgttc tcagatctct cttgntggac tagacttaga ctaaacaaca ttattgtaac 60
 aacatattta aaaccaaacc ttaatccgca gatccctctt gtaaaactaa gtttcaattt 120
 tgcttcattc aagttctaag gcaacaatac atttcccaat gctaaaatca cctaaccaag 180
 cacaaaaatt ggtgatcaga ccaagagcat acagaattta agcattgaaa gaagcattga 240
 acacaagaaa cacaaatcaat tagatattaa aataattaca tcatnngttc tttagaaatc 300
 cccaactagg ttgtttaaca agccattaca gaanaacccc taataataat gagattacaa 360
 aacctangta tctcttgcaa agctgctcct c 391

<210> 31337
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31337

tgtaaaactaa natagatctt agatagaagt gtgatattgt tattttctga atggaaaccc 60
 tcttaagagg agaaatctat ctttatgcaa tccaaacaca gaaacccttt gttggtgaaa 120
 gtccagcaag tggctagcaa aggttgtaac tagtggtgtt ggtggtctaa caatggcaag 180
 gtgtgaagtc tagtgggttt gttggttagt tggtgaaatc cagtgggttg ctagtccatc 240
 aatgaaatct catcttgaag ggtgtgagga ctggacttag cccaagtttg gggtaaccc 300
 gtataaaaat cattgtgtat catcttcctt ttctatccct ttgcattgtt ttataactgg 360

aaaatgttta ctatctctta ctctcactaa ggatggtaac tccctttgaa aaacacattt 420
 aaaactgana ccatgtgtca aagtcttttc aacta 455

<210> 31338
 <211> 364
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31338

agcttatctc tagacactat ataccagatg ctgtaaataa tgacaggaga ttccatgcaa 60
 cctcctttgc aggagagcac tgccatggct gcttaagcaa aaaaaagaaa aagaaaaaag 120
 ataacacaat tgaaaggta agaagttaaa agaaacaaat gtacaaatcc tactgccaat 180
 taaatggaaa taaactaaag tgattatacc caatgggtgt aggcgtgtag ctcagctgct 240
 aacacagacg ctgagtttgt aggggaggac ctangtttgg tccccgcaaa atacacttct 300
 tgagagggcg ataaccttaa gtgtgactaa gtcctagacc anaaattaat ctcatagtcg 360
 actc 364

<210> 31339
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31339

tactaagctt aggttttgat gtgtgagatg cangcaacgc ggaagcaata nattttagta 60
 gtccagcttg acgagatgct tgtaactcaa gatcctttcc ctccaaatac tagaaaacaa 120
 aagttaataa ataaaggaaa acaggcactt taaaaaatta actaaagcaa tttaaaaatc 180
 aaaagactac tatccataaa ttatgaaagg gaaatgcata catttacact tgtaataatt 240
 cttaaaaaaa ggaacttttg gttaaacacac tagttaagaa aaaggattgg ttggacgatt 300
 gtccataaaa gttagtgtat tatatntctg ataaaacaaa aacgaagacc atatgcaagc 360
 atcaaccaga aaaggacaaa gaanagctca gcaataactt cgagtctcat acgaatacaa 420
 cagcaggaat cactagttct tccagataaa atattattca caaat 465

<210> 31340
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 31340

tgttgcaagc ttatttcgac aatggtggcc tcttggaat gaagcggcta ttcctccttc 60
 tgatgacgca tggacactta tctctgaccc aactacaatt cgttcgaaag gtcgaccaa 120
 atcaacaagg ataagaaatg agatggattg ggtcaaacca tctgagcacc gacaaaaatg 180
 tagtagatgt ggagccgaag ggcataacag gcgtcgtgt ccaatgcaat ctgagtgtgg 240
 gagttgttca actcgtgat ttatgtatgt tagtcgagtg acttgtatctt gcttacgttc 300
 tgtttaatgt atcgaatctc ttgggttcaa tgaattcggg agctaaaacc attctggctt 360
 ctgtacatta cttatttctg ggggttcaatg acatcggttag ttaacaacat aaaca 415

<210> 31341
 <211> 480
 <212> DNA
 <213> Glycine max

<400> 31341

cggccggtgt gctcctgaat acgcaacata atactagcat tgcaagacat tgctttgtaa 60
 cgccattatt tcttacctg catatttgaa tggggtgacc ttggcaggac cgatcatgcg 120
 atagtcccat accttgccga ctgcttatac agatacgatt tccagtgatc tgaagaacgg 180
 ccacaatctg gtgctccaag ttatttacta ctttacagta cttaatggat ggcacgattg 240
 taggctaggc ctcatgatcc atggatcatt cgaaccacat ctacctatca tacactcgag 300
 agacgctact gtgaggcact gctaccatac ttaatatgtc tactcattag acagatggct 360
 gacacgatat cgcgacgtct cgctgcctaa tataccctat atgcttggac tgatcaaacg 420
 accaaccaat tagagcgagc acatatgtgt tatctaataa agtgtacgta cctacactgg 480

<210> 31342
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 31342

agctttttca gagaaggaat ctacggagga aatgcttacc acctcgaaag actggaaagc 60

ggtttctaata gactcctctg cggcctccac ataaggcata gaagatgggc agctcaccaa 120
 gttgtcttcc tcgcctgata cgatgaccag atgcccttcc actacgaatt tcaacttttg 180
 gtggagtgtg gaggaacaa ctcccactga gtggatccac ggacgcccc aacagacagct 240
 gtaggggggg ttaatgtcca ttatttgga ggtaacttgg catgtgtgag ggcctatcta 300
 tactgggagg tcgatctctc ccctaacctc tc 332

<210> 31343
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31343

tgaaccttga atcttaattc ttgattcttg aaatcatatt tcctcttgaa ctttgaagtg 60
 ttcttgattc aatcttgaac atcttgaact cattctttga ttctttgaga tcatcatctt 120
 tggtatcatg aagtgttctt gacctttgag ctttttgcca tcatgtttgt tatcatcaaa 180
 acttttttga atcaatcttg attcatcatg aagcttgctt ttacaatctt cagctgctgg 240
 taatcgatta caatcctcat gtaattgatt acatgccttc aaaaatattc aaaattattt 300
 taaaaatgtt tcaggaagtg ttttgccac tggtaatcga ttaccagaga gtaaacctct 360
 tgtaaaaaca tttttgctta aattcatcgg ccanacttct tgggtgttca acttgaata 420
 tcctttctaa atcactagag atcttcttga 450

<210> 31344
 <211> 368
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31344

tttgcaagct tgttaaaaag ctagaaggag ntatgtcttt tacatgccta actcccttga 60
 gtgacatttg tattggttgg tatcttgtgt gttgcatctt agtacatata aaatttttat 120
 gcaccttca tcatcatagt aagtatgaag aanagtttct aagttagaaa ggtttcttca 180
 agaggcaaaa ctctctattt taatcgatta caaggttgtc ataatcgatt acaacaagtt 240
 gtttgaagct gggagagttg agtctcgat cggcttaatc gattacagta gactcataat 300

cgagtacagc tgcgttgag ataatgaatg atatattcaa gagtatttga tttaatccga 360
taccaagt 368

<210> 31345
<211> 387
<212> DNA
<213> Glycine max

<400> 31345

ctacggtgaa caagagacat atataaatga atgaccaatg tatttaatga aagttgaata 60
gtaaggccat gattggataa acttctctcc atgcgtacat atgggagaag aaattatgaa 120
gataaaatga attgagtttc tctgtgaagc ctaagttaat ttacatactt tgacttttag 180
agaatttaaa tgagattgct tttatagaag tacagtgcac gagttgattc taactcatag 240
gagatgctca atttaattta tcttcttatt ttcttcttct ataagcgctt atgaagaaat 300
ttatccaaac aagaaacctt ggcggtcaa aaaacatatt tgatatgatt gctgcaagat 360
accttgaatc aaaatgcatt ggtaaatt 387

<210> 31346
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31346

agcttgctgc ccagctcgcc caggcgagct cagctcgccc aggcgagcag ggttgcttcc 60
tccagaagca accgccttct ggaggaatct tctggagggc ccaaattggc ctgggtgcta 120
tttgacccc catttttact aagtacccc cctctgctg ttttttggtg attctttttt 180
cgtaaagtta cggaaactta cgaatttcgt aacgatactt gttttcttcc cgtaatgtta 240
cggaaccttg cggattacat aatcatcccc tttttgactt acggaatgtt acggaacctc 300
acttaattat gcaacgatgc ttccatttga tttccggtgt gtcacggaaa cttacggatt 360
gtgcatcaat attttttttg gttnttcggc atgtcctgga atttcac 407

<210> 31347
<211> 445
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31347

cttcttttggga ccttgaacag gcaactaact cctcttttcag atccatgcta tgtgcccgcg 60
actggtctctt ttcttccctt cgcaacttga gttcactatt gctaccccat agagctccgc 120
gaaatttggt cgggccatac tcttccttgc gagccctctt ggtttcttgt tcaagggctc 180
ttgcggtaat tgcattctct tcccgttaacc cggcacactc cttccgaacg tgtgtagcgg 240
ccaacttgaa cttctccttg gcaagttttg ccttttctaa ctcgcttttg agagtttgga 300
cttcttcgtc ctcttcgggt gcttcaaaac tctcttcgct gacgactntt aacttggcga 360
gccaatctaa acctcgata tgaaccttca gccattcgtg gtaccacca atgaggccat 420
tacgaatgcc tctaagctct tgatc 445

<210> 31348

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31348

tttctgcggc atgcagcttt taaagcttgc gttgtatttt tatgttgta aagcttaatt 60
atcccataag ctccagctat tagtgtacgc taatgaatgg tttaatatct tttagaattc 120
atntagatc ctattttagt gggtccttat acagtttagca atagtacttg acttaattgc 180
caatataaat tggagtatta ggtagggttag ggacttaagt cattgtgtta taccacatct 240
tattaatcat atattattgg ttaccatctg tttttcacat cttctaccta atccctataa 300
cttccacatc atattnagta taattttcct cattcgttct tccccctttt aaagtcaaat 360
tcacatgtag tgacctaaaga tcatgtcaaa atctc 395

<210> 31349

<211> 301

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31349

tttttttaaa aaaaataatg gtaaggaata cataagttga ttggttttaa aaatagtata 60

ttgggggggaa gttacatata taaaaaatgg atattgcatg aaagaaactg aacatttgaa 120
 aaaaaaaaaa gatgccccgg ggcattgggtc tgcattatac ttagagctat ctactttaac 180
 aagagaattt attcaggaaa actgggggtga tgggtgtgca ttaagagaag gttcacaact 240
 ttgtcattaa ttcaatcaca caggaacccc taactcgttg atcttcatta tcnnctgtgt 300
 c 301

<210> 31350
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31350

tctagcttgt tagacttgca attctcacac ctgtcaaggt tatctctcga cactggacaa 60
 tacttggtcca tgcttaaggg cttgactgac tcgtcatcct cctacttggtc aaagttacta 120
 cccccgacac gggacaatct cctttgacac tagacaacct ctttcgcttg ccagccgggt 180
 cagagctttg gatgcttatg tattgtccaa ggtccacaaa atacacatgt catgctacgt 240
 gacactccaa gacacacgtc aaccctctat gtcagtcttg gcataagagc acagacgtct 300
 aaccgtagt agctggctcc ccaacagaca gggtattctct aacctcttaa ttatttgaat 360
 atattgncat ctccatatct cttggcacgt atacaaagct acacattatc 410

<210> 31351
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31351

ttgacttgag tcatcaagag attataaata cgtgaccatg tcatgaatnt caacaattat 60
 caatcatctt tgaatcatct atctttcaat ctttttcaac atcatctctc atgcatcttt 120
 caatatcttt caattcattt ctctttatct ttcaaaaaga ttttgttcaa acactgtctt 180
 ttccaagaaa agttctttgt tcaaaaactt gtgtatttca tctttttcat tctcttctcc 240
 ctttgccaaa agaacgaagg acaaaccgct tggattcttt tgtgtctccc ttcttctttt 300
 ccaagagaat tcaaaggacc ctgcctgaga attcttttga ttcttccctt acccttaagc 360

aaaagattta gaaggactag cgcctaaga tatctt

396

<210> 31352
<211> 335
<212> DNA
<213> Glycine max

<400> 31352

agctttgagc caaatcctg actcaccata aaccttgacc cagggtgaga atgtcaatcc 60
ttaccctcgg aagcaaaaaa agaatagagg ggaaatttcc aatcaaagaa aaagagaagg 120
aaaatttcca atgaaagcaa aaaaggaaaa gaaggaaaat tccccaatca aagagtggga 180
gaaagcaaaa aaagaaaaga aggaaaattc cccaatcaaa gagtgggaga aagcaaaaag 240
aaaagaaagg aaaattccca atcaaagaat gggagaaagt aaaaaggaag aagaagaagg 300
aaagaaagct cctgatcaag gatcgaaaga aaaca 335

<210> 31353
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31353

tgtagagggt aggattaagt gcaaaaataa tgacttatac ttangaatcc aagcctttgg 60
ttttgagtgc cagaaagcat gaaaatgaga gcatgttggc taagattccc ttttaggcc 120
aacacttggg ttgggctata ctgtgacatc ctggaaattt ctaccggaa ttttgtaagt 180
gttacattta aataattata tgtattattc agggatatata tatattcttg gtagaagtat 240
gtacattggg ggaaaaatac gcgggttaga ctaattaaca aagagtaatc cataactgga 300
cagttataga ttaattcgca attaattagt ctaaaaatta tcattttgcg tgcgacttaa 360
aatttaacaa aaccaacctc tggaccacgc tcanggtttc attctgagcc gtttgatata 420
tatacata 428

<210> 31354
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31354

agcttgtatg tttgtacatg accaaatctt tagttaatcg tctttaccta aagcagtctt 60
tgtattcggt taaaatgcat gaagatagat cagtaggaga acaattgggt ttggttaata 120
aaatgattct agatcttgaa aatatcgatg tcaccattga tgatgaggat caagctttgc 180
tattgctatg ctttttgctt aagagttact ctcatttcaa agagacttta ctatttgga 240
gagactctgt ttctcttgat gaagtgcag ctgctctgaa tttaaaggaa ttgaatgaaa 300
gaaaggaaaa gaagtcctct ataagtgggt aagggctgac aacaagaggc angaccttca 360
agaaagatag taaatctgat aagaaga 387

<210> 31355
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31355

tccacaacat ccaagcaaaa caacattcaa acagcacaag ctatcacagt ctagcaaaac 60
agagcaaagg cagaaaactc tgctcaacac atcaacaaa atcacagctt ttctcactta 120
aagaccaçag taacaattcc ttgatccaa ttcgttaacc gttggatcga ctccaaaatt 180
gtactggaag tctatagtgc ataagcctac attgtgaccg ttgggatcta ctagcaaaca 240
tccagaactc attctgtact actctttcca cagccaacca cacacaagca ttntctgcac 300
caagctaaaa tctgctgca cctattgtga cagcaaaatt ctgcataagt gcagatttcg 360
aacatcacac ttccnctcat ccaatcttgc tcanatcaca tctacaagt cccaaatcat 420
gtatcanaca tgtctaaacc aaagccaagc 450

<210> 31356
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31356

agctttatga gttgaggtgt agagctttgg ttcccttaat ttgatgactt cagcatttgt 60
agtctccata gcatggtaaa cacatgaagc acactatgct gagacaaatt caataatcct 120

aagtacttta ttaaacadat gtattttgtt tttttgatgg tgaacttgat atttaacata 180
 gggtaagggg acctgtcccc ttgtgcttta agtaaaggaa aatgaccctt taagaaaaga 240
 tggagttgaa ttaaaaccgt ttgacaatca tccaaactgt ccaaattcat agaactggca 300
 gaaattgggt gtggatgtgc acatgttngt gtaggtgtgt ttgtgggtgat aatatataac 360
 tctaggcatg tgagcttcga gaattatcca aacatagaaa acatagtcac tatgtcctta 420
 tcatca 426

<210> 31357
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31357

gaagctntag tgcaatgtag agggatcaag agcagcgtaa gatggaaaga gcttgattat 60
 aacttatgag gaagatagga agcttaatta aaaactatgt ccttggcaag taaggcttgt 120
 cttcttccaa gctcatatcat atattatttg gtaaatagtc acttttgtct ctaaattgtgt 180
 aattcgctga caaatgcgtt ttttaaagat aaaaatacaa aatttagttc tcgaaagtga 240
 aaaaagtga ataaatatat tcgactgtta acttgtctgt taccattaaa aaaataacct 300
 acgtgacata taggaacgaa tntatcactg aaatgggtgt caacatgggc atctctaatt 360
 accaacataa ggatatattn gtcataataat attttcttga cttttcgtct tttcactctc 420
 tangaatang aatacgataa atagtcactt ttatt 455

<210> 31358
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31358

agctttttca atgtatgtta tgcaaacttc cctgtttccc aagtctcttt aaaaagaggt 60
 tgataggggt tgctgtcatt ttatttgggg tcatgataat tgttgatcct ccatctccca 120
 ttagacgaca tgtgaagtgg aaaatgatcc gcacganaaa atctagtcaa atgacgtcta 180
 acgcaataaa ggaaattgca tataggattg taagtaactt tcattcgtca gtgggtcattn 240

tttataataa ttcttggatc agtaaaccac atntgtttca tctattgact acagaattcc 300
 ctggaaaagc aaccctcata gggaatcttt attgcccatg ggcatacaaga tgtattgctt 360
 gtttccattg ggcaacacaaa gcaccctagt catgttcgtg attctagagc acggtgtacg 420
 atcaaac 427

<210> 31359
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31359

tnccatagtt ctgaataaat cttctatagt agcttgaaat ttctatatat tctcttaatt 60
 ctttgactgt ctcaggctctt ggccactggt ggattgcctt aattttatca agatctggat 120
 gcaccccttt gacagaaatc aaatgtccca agtaattgat tttggttggt ccaaagctgc 180
 attttttcta gttgaatgcc aagttgcgtt cttgtagtat ttgtagtgta gtgtgcatgc 240
 attgaatgtg ttctgaccat gtcttggtat agactaagat gtcatacaag aaaacacaaa 300
 tgaacttcct aaggtgctcc ctgaaaatat cattcatcag attttgaaat gtggctgggtg 360
 cattgctaag tctaaaaggt aacacaaccc attcatagtg cccactatgg gttctaaagg 420
 cacgtttatg aatgtcttcc tctaccattc tg 452

<210> 31360
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31360

agcttggttg agataattta aaatttaagg aganaaatag gaaactaaga ttctaattag 60
 tgtggtacaa aataaaaaaaaa gtgaaattat ttgaaagatt acaagtataa gaaaatttgt 120
 ggccaatgat caaaggagggt tgaaggcggg cgagtggcga gtgaactcag tgggttagaa 180
 aatagaattg ggttttggat tgggttgctg nttcgtttat ctactctcct cttgttcatt 240
 tcatcgctc tcagccacct ccccttcgct cctctctctc tctctctctc gcgcgcacta 300
 caatcaaagt catgaaagca ttntgttcat agaagaanga aattcctctt cctattagaa 360

tacnggtntt ttccattca attcaatcat gttccggca ctgtctcaat tc

412

<210> 31361
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31361

tatgaaaatt tctttataag gatgaagctg gctgctgttg ttttctacat agtacatagt 60
taagtcatga cacaaagaag tagtttggtc ttgtttaatc tccctttatt tcatcaccaa 120
gagaataatg tcaactccctt taccgttgaa cagaagttgt gattgaataa taggctacca 180
tggcgctaatt tgtgtaaatt ttaaaatctt cttcttaata caaagtcacg tgattggtca 240
gaattatcaa tatatttttt tccctcaagt ttaagagtta ctaatctaga tcaaccttac 300
aattagatgc ccttccttat ctttgtaagt atccacaaat tctctgatca atattcaant 360
agttggtagc tggatattaa attctctcga taagtctcat gttctatctt 409

<210> 31362
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31362

agcttttctc tgaanactta ctaaaataag ctacaaaaac agcttttttt tataagtttc 60
tctgtgaagc gtattgaaat aacttacaaa gagtttatag gaaggtcata agactaaata 120
agctcttcca aacaaccctt aagtctccca aagcttaagc tgctagatga cagctcatga 180
atgattttat atctagcaga cctaattaga aatttcttag actttgaaca caactacaaa 240
cttcaatata tagagactga atagaaaatt tcaagacagt caagggacct gtagataaat 300
taaataaaaa tataaagaca aggttataaa attaaccaat tgggctagaa tcatctt 357

<210> 31363
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 31363

ctaagctttg ctaagaatat tgcatttgaa aacgctcatg cattctgcat gtacatgcat 60
atttgtcatc ttgtgacagg gacaagattg ttttaagcaa tgggtcaaata ccgcgccaaa 120
tccaagacag agatgggtcg aggttaagtgg taacgtgacc aagatttgct gcgcaatgtc 180
atthttctgct ttcaagtact tgnnggacggn gacgaatgga tgctaggccc atgatcaaca 240
gatcgtatc ctacgtccaa ctccggacaa tcgagaagcg ctacaggag gcagcctagt 300
atccttttaa ttctacata ttattattgt tgtttcttta agatgataat cggatgccta 360
acttaccag ggggtttgag taagcgaaca ccaacctata gaaagcgcgt actttctttt 420
gcaaaaaaaaa cgagggga 438

<210> 31364

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31364

agcttatata ataatttttt aacttgaaat aaccctaagc cataaaagcg cttaggcctt 60
tatttttaat ttttattata tcttatcata gtttatataa aattttgatt aatcgattaa 120
atttaaaggc taagaaaaga ggtaagatta attttttaag aaaaaaatg gattttgggt 180
acattntact attttaatta gtatatttta aataaaagag gctttaaaat gatttaatca 240
ttatgatata aaaatgaaga catagactat gtttggttta gttagttctt aacttttttt 300
actagctgan aaaatttagt tgattatttg ataaatgaag tctcaatggt atactcaa 360
tagttagaat ggggtatgta ggtttagaat tttcaattcg taagaaattg taac 414

<210> 31365

<211> 351

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31365

gccctctctt ccttcgcag cttgagttca ctattgctac cccatagaag ctgcggaat 60
ttattccggc cctactcttc cttgcgaacc ctcttggtct cttgttcaag ggctctcgcg 120

gtaattgcat ttctctcccc gaacccggca cactccttnc gaatgtgtgt agcggccaac 180
 ttgaacttct ccttggcaag ttctgccttt cctaactcgc ttttgagagc ttggacttct 240
 tcgtgctctt ccggtgcttc aaaactctct tcgctgacga cttttaactt ggcgagccaa 300
 tctaaaccct cgatatgaac ttccagccat tcgtggtacc caccaatgat g 351

<210> 31366
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31366

agcttgtcta acactatntg nttctcgtga agggacaaca aatggcaaag gagttagagc 60
 tttaatagta agaataattg cttattagtc tggagatgga tcatggtaca ctaacatgct 120
 tttatttagt acctttctgc acataaaaag tgcccaattt tgtatgcttt gtcttgagct 180
 gacgaacaag attgtgagag agactgtact aaggttgtca cagtagatct ttggagtctg 240
 aaaaaactca gaagagattg aatccatagg atttcagctt cagtactcag cctcagtgct 300
 ggactggggc actaaattct gtttcctggg ccaccacaaa attaaattgg ngtaagata 360
 tatacaagca cctaaagtgg acatcttata attcatctat atat 404

<210> 31367
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31367

tgtctcctat gcagtgcac taccctcaga atataaaatt tgttgtgaca gatccaaatg 60
 caaaggaact tgcgaacccc accactccaa acacaatctc cacaccattg ctgaaaactc 120
 atactacaag aaaatatgat ttgtagattc tccacaccat tgctgaaaac tcacactaca 180
 tagagtttcc gaggctggaa taacattcct acgagccaaa ttctattttag agggaatgtg 240
 atcctaaaagc gctttccatg caaagccttg aatctttaa gcattctctc cacctccaat 300
 cctcccccac accacccttc ctccaaagac acatctnctt caccgaaact tgcttatcta 360
 tagccacatc aaataatcga ggataactca ataccaatgt cgctcacc acccaatgat 420

<210> 31368
 <211> 402
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31368

agcttttgtt atggatcact gtatgggttc cttgaacctc agtctataca caacgtaaag 60
 aacaaacgtg aagaatgtca acattacatt caaacatggg tcacagaatc acaacgagaa 120
 gtgtacttgg gagcttacct gaatcaataa gttgaattga tgttgtacaa tatggatatt 180
 atgtgcatta ttggtgccta actaatgttt ntcgtcttca gggcacattg gcaacttgtt 240
 gttctgtgtc cacgggacaa tattgttgtt tggttttgtt ctttgcataa gaagcttgat 300
 gttaacatca agactgcagt gaacaagtta gttttaacat tataaagtca atattgtata 360
 gaaatcgtag cgtataaaca caatgattat ttgatatata tg 402

<210> 31369
 <211> 368
 <212> DNA
 <213> Glycine max

 <400> 31369

gaaatgggca gcaaagaaca aacacacatc acagaagaat aggccacaac cattaacctg 60
 cgctaaaagc cattcaaatg atggcatttt gatattcctt ggtaaactaa gaacctgaaa 120
 aatacaatag aaacatgggc accgagagac atctatcaca atagcatata agtatacctt 180
 gaatgattaa caattctctt gactttcact taaataacat actcaatttg catgatccac 240
 ttcttcaatc cttttaatta gcattaacaa ctatagcttt agaatcatta acaatcctct 300
 tgactcttac ttagatgaca ttattcgaaa ctacatgaca ctccgagcac acatccaagg 360
 atattttc 368

<210> 31370
 <211> 405
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 31370

agctttataa tttgaattaa aacgttcaga aacttctggt aatcgattac acagtgcaaa 60
ttntgaattc aaattttaat agctgttgta aatcagtttt ggccactggt aattgattac 120
atcctctggt aatcgattac cagagagtaa atttggtgaa aaagactttt taacttaaat 180
ttcttggcca aaccttttgc tacttcaatt ggaattccct tectatataa tataacccttt 240
ctaagactct agagactgtc ttgatcatcc atcttgaata tctctaattt ctttgtcttg 300
aataaagctt tgagacacat gtgaaacttt ggcacatca aaacattcag ctngatcctt 360
tgtctactat ctcccccttt ntgatgatga caatccctga aatca 405

<210> 31371

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31371

tgcaattgac ataaagggac gtcccanaat gactggtacc tcatggtctt cctccagatc 60
catgaccaca aaatcagctg gaaagacctt cacttttatac aaaacattct caattacccc 120
ggaaggtctt gtgatggatc ggtcaacaag ttgtaaagtc attctcgtgg gcatgatttc 180
caactctcac aaccttctac acatggagag cggcattaag ttgctactgg ttcccaaatac 240
aatgagagtc tttctgatgt gccatcattt tcttctattt cttaaaccct ttntgcacca 300
ttttaattac tgattagtct taattgtcaa attaattaag cagttttatt atttgggcac 360
attgagctaa tttgatgttt ntaatctaata ttcatgaatt aatgaaacat tgggcttaat 420
ctgga 425

<210> 31372

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31372

agcttctttg agaaaacttc cttgagaagc tagagcttag ctacacacac ccttctcata 60
actaagctca cctccttgag aagcttcctt aagaagattc ctaaagaagc ttgagcttag 120

ctacacatac ctctctaata gctaagctca cctccttgag atgagaagct agagcttagc 180
 tacacacccc ctataatagc taagctcacc cccatgacaa anaaacatga aaatacaaaa 240
 aaaaagtcct tactacaaag actactcaaa atgccctgaa atacaaggct aaaaccctat 300
 actactagaa tggccaaaat acaaggcccg gatgaaggaa atacttattc taatatttac 360
 aaagataagc gggctcatac ttagcccatg ggctcgaaat cta 403

<210> 31373
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31373

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 gtatgtatac atgattttga tgatgtcaaa gaagaattta acaaggctgc ttcaaatgat 120
 aagcatttgc ttcaagaata attcaagatt gcttcaacaa acaaagcctt ggttcaagat 180
 tcactaaaga ccaagccttg ccttaaaaca aagtgccttc aagacatgca aggctctggt 240
 aatcgattac caggaagtgt aatcgattac cagaagacag gggtgagaaa tagcagttga 300
 aaaaggtttt gaatttgaat tttaacatgt aatcgattac catatgtctg taatcgatca 360
 ctagcaacgg aactttggaa attcanattc aaaagtca 398

<210> 31374
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31374

tctagcttat tcgaagcccc ttgaattgat tgcgttcat gcacccctcaa ccatngagta 60
 cggagcccca tgaattgatt gcctaacgct gttcatgcat cttcatcat caaatcttat 120
 tcggagcccc atgaattgat tgcgttcat gcacccctcaa ccattcagtc cggagcctta 180
 cgaatagact gccaaagctct gttcatgaat cctctatcat caaatcttat tcgaagcccc 240
 atgaattgat taccattcat gcacccctcaa ccattcagtc cggagcccca cgaattgatt 300
 gcctagtgtt gttcgtgcat cctccaccat cttattcaga gccgcatgaa tngattgtcg 360

<210> 31375
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31375

tggaggggtgc gtagcccacc atcttttcat agtggagtat cgataatgtg tctaccatca 60
 cgatcatcgt ctccctttcc attattgggg gtaccacctg ggccgccaga tccctccacc 120
 ttttggggcgt gttctttgaa agatccgtcc ccctttttgc acatgttctg tagttgcac 180
 ctattcagaa ccatatcaaa tttgtactga tactgcctaa cacaggcaac cattangtcc 240
 ttccaagaat ggactcaaga aggttactaa gttagtatac cangcgacag ttgtcctagt 300
 aagaccttct caggaaaaat gtatcagcag tttctcatct tttgtgtatg ccccatctt 360
 ccgacagtac atcttttagat ggttcttga gcgagtaagt cccttatact tgccaaagtc 420
 cggcaccttg aacttgggaa tgaccatg 448

<210> 31376
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31376

ttcttgcacg cttttaagct tttagaangg ctagacatga tacatgtcag ggtttggtct 60
 ggctcaagga taaaatggat gcccacatt atttccatga cacaaaaatg caaaaatgat 120
 gatttggaaa ctttatgcaa aactgggtcat gcatgcacct atgcggacac tcgagtgtca 180
 aatttttatg gtcatgtgat gctatggctc atgattcatt tctctatatt tattcaaccc 240
 aatgctttca aaatatgttc ttttatcaat ttgtgcattc atccgagtcc attttgggcg 300
 tctgggacat tcttacagca ttcacccttc aagtgtatac acattttttc taaaact 357

<210> 31377
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 31377

gaagcatgtg taacacttgt tggaactttg atgaatgaga atcttgtgag acacaactcc 60
aagttcaact tctcttcatt tttcttcctt caatttcgtg ctcccactc tctctttctc 120
ttactctttc ttttctcca ttgaagcatc ctctccaagc ttcttatcca ggctcatcat 180
gggtggaggag ctcttcttc catggcttat tccctagtgg atggagcctc ctctcaccta 240
ttctactttg tctttcgtg catctccatg gtggaaaatc accattgaat gacctcattg 300
aagctcaatg atccagcctc cat 323

<210> 31378

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31378

cttgtgtaat cgattacact ganttggttaa tcgattacaa gtgatagttt ctgaacaaat 60
caaaagatgt aactcttcaa atagtttttg actttttcaa attggtttta aggttttcta 120
aaagtcataa ctcttctaata ggttctcttg accagacatg aagagtctat aaaagcaagg 180
ttttgctttg catttcaagt atctttccaa ttcattcttt tgacaacaaa cttttgccaa 240
ttgatttatg aatctctttg aacttcttct tcttcttctt tttgccaaaa gctttccaaa 300
gttttctggt ttttccaaac cttgaaaact tgtgatattc atctttttca ttctcttate 360
cctttgccaa anagaattcg caagggacta accgcctgaa ttctttntgt gtctctcttc 420
tcccttttc 429

<210> 31379

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31379

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gttttctctg tttccttagc agcttttctg ttttatgacg tccttcttca gcatgatcat 120
tttctctctc tttccgtgat tccaatctat tccttcttgg ttccaaggcc tattgtagcc 180

ccacattagc tcaatcatat atatgttaga ttcttcgtta cttttaaata attatgtata 240
 tcttctactg tatagaaaacg tgggcatgca accttattgc taacgtttat ccggatattg 300
 aaataaagac gtgcttcttt ttctttcttt tctgcaaaag agaaacaagt cttatagtct 360
 gaaactgggt tcgttactag ctatcagatt cactgaaaga aaaccatcta gctgttacct 420
 cagagattct ttctattgta agtttattct ct 452

<210> 31380
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31380

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 aaatccaaaa tggttacttc tcagcaactg actggagcta tggtaaattt accatagaac 120
 gtcgtctacc atagaatgtc accaacaatca gaaccattta tccttggttt tcatcaaaaa 180
 agatttataa atatggccat aaacttagat ctattgttga tgtaataact aatggtatga 240
 ttgtgaaacc ttttttagcat atgaattatt ttttctttgt ttataataga acaattttta 300
 gtcacgggaa aaaaatacaa agagaacgaa ggataagata tcataattag catatgtaaa 360
 aagcagaaaa caacaaaaac aaagaggana tcaacaaaaa gatgttcact tcctcgacat 420
 atatactagt gaga 434

<210> 31381
 <211> 447
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31381

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 ccatagccat cattggaaag ctgacattgt ttagtagggg agtcatcata ttaccatggt 120
 cctattgagt gtaccacgac catcgттаag tgacaaagtc ttcaaattctt cagaaaaaat 180
 gcaaattcca actctttcac tcaattcaac ggctatactt ctataagaca aaactagcat 240
 tcaaatgaga gttctgcca gaaaatacat gaaaatgaca caaaaaatca cataaaatat 300

cactcaaaaa gtggtttatc accttgccca cacttgagcg ttgcttgtcc tgaagcaagt 360
 gttctagttc tttaatcaaa acaattatcc taaatcagaa ctcatgtatc tganatctcc 420
 atttattcan atgtanaact cacatta 447

<210> 31382
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31382

tgtagaatgg ctagacatga tacatgtcag ggtttggttt ggttcaagga taaaagggat 60
 gccccacatt atttccatga cacaaatgca aaaatgatga tttggaaatt ttatgcaaaa 120
 ctggatcatgc atgcacctat gtggacactc aagtgtcaaa tttttatggt catgtgatgc 180
 tagggctcag gattcatttc ctctatttta gtcaacccaa tgtttccaaa atatgttctt 240
 ttatcaattt gtgcattcat ccgagtcctt tttgggcgtc cgggaaaatt ttcacagcat 300
 tcacccttca ggtgtagaca cttttttcaa aaaccagtta tgatcagtga atntttttca 360
 nagaanagct ggaagttatc tctttttcaa agcatgttgg ttnttcagct agacaactta 420
 tttgctnttt tctccttc 438

<210> 31383
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31383

tgagtttact agtatnttgt ttatgaaatc agttttcaaa ttctcgaaag tgaatcaaac 60
 ctgccctaaa aaatctttgt tttctctctt cttctatatt cttccatttc tactcatttt 120
 ttctcttctt tccctatcac ctacacttga catggcagta taacacccca aactttttta 180
 ccccatgtta tagaatcatc aaatatacat atccaccaa gaagtacaaa catagacatc 240
 atactcaagc ttactttctca ttatgtaacc atggatttct ttcctaaat taaagcaacc 300
 caatcaaatg actgcttgta gagcactagt tattgaacat gaatccagca ggtggaaatg 360
 agatagaagt ggaaaaaggt ggattcaaca gtcttttaaa ttaaatagat gacactaaga 420

<210>	31384
<211>	437
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      31384
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ttcttggtta	a	gattatat	atatacacg	acttactcca	ctcaatgcc	atgtctatct	120
ttaatgttta	a	aatttagagt	tgatctctt	tctcaattt	tcaattaaaa	ttacatcaaa	180
gaagtcatat	a	atttagagat	aatacattgt	ttattcttga	taaggatgtt	caaaactaat	240
tacacaagtg	a	aggactaaaa	attgagtcct	gatacaaatt	tatccttgta	cagaagtctt	300
tagtatcatc	t	tctaattgatt	ctcaaaactat	taattatctc	atcatttatg	tcttgataaa	360
ttcagatata	a	agtcattgtaa	atataatttct	ttgtcaaagc	tttcataat	acttatctca	420
aactccatc	a	aatatt					437

<210>	31385
<211>	443
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      31385
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tatgaaataa	aagtatogat	atatgtgcat	gtacacaatg	ctgcatcgga	aattttagaa	60
agaaggaaaa	aaaatcaaca	agattgaaag	gccaatatat	caagtgcaaa	agaaagtgct	120
gccacataat	ttttatgCGT	tcaCTctata	aagtgtagga	atttgagata	tcatgacaaa	180
aaagatatat	gtaaatttaa	aaattaaaag	gattgggaaa	gaggaaaaat	aaaaattcta	240
ctaaggttta	tacaaacaag	agaaaactcta	tcaattcatg	ctaattagaa	gaaaaaaccc	300
aatttttagg	gttcacactc	aacataggaa	cacatcaatt	tcacaacaaa	ttcgtatcga	360
gacaccaatt	agtctgtcaa	acacagtcaa	tccacaatta	anaacataag	aacataattg	420
aatntcataa	aacaacccaa	gtg				443

<210> 31386

<211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31386

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 tgccattcct tggattatag ggttgaaccg agtcatgct tttaaaaaa ggttcatcaa 120
 gtcagggttga aatatggaag taaccatcct gcaaacttgg ggcaaaagat gaatcgagtc 180
 acatcactgc ttcgtctact gccaaacata ttaggatta ttgatgtcct tgttacttcc 240
 agttttcacct tgacaaagat gtcatggacc atgttgaaaa tctaaattga ttcaacccca 300
 tatcctgcgt aaaaattcgc aatacttcta catcattcgc atgcatccat gcttttcatt 360
 ggttgcatg ctcattgcat tctcttcttg aaaaataaaa taaaatgaac ttatcaaaaa 420
 aaanaaaaaa aacaaaaaaa 440

<210> 31387
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 31387

ctatatggac gaaagtgcaa aactcctatt tggttggtatg atgatggaga agcagtactt 60
 cttggacctg aaatgctaca acagattaac gaacaagtga ggttgattcg agagaagata 120
 aaagcatctc aggataggca gaagagctat tatgatataa ggaggaagcc actagatttt 180
 catgaaggag aacatgtgtt tttgaagggt tctcccgtaa ccggagtcgg aagagctctt 240
 aatgctagga agttgacacc caagtatcta ggtccatata aaattttgaa gaagattggg 300
 cctgtagctt atcatatcgc cttacctcgg agtttatcga atctgcatcc tgtgtttcat 360
 gtctctcaac tgagacggta caaccagat ccatcacata tacttgagc ggac 414

<210> 31388
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31388

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aagtattcat ttacacaaa tgaacaagat gacaaaggca caatgcanaa tagcagggtc 240
atcctaaggg ctgaatctca acactttgca agtgtgcatg atgccaatcc ctgtgtagct 300
gtcatccctt actttgggtt cattgatgaa atttgggagc ttaactatgt gaaatttact 360
atctgtgttt tcaaagttaa atgggttgac agtaacaccg gtgtgtgcac cgatgatata 420
ngatntatgt tg 432

<210> 31391
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31391

ggaatcggac ctgagtgtga aaagttatga ccatttgaat ttctcgattg tctttcgttg 60
ntcaatgtcg agcatctcga catattatgc gctcgaatcg aacatccgag tgaaaagata 120
tgaccatttg agtttctcga gagcttccgt ggttcaattc cgagcatctc gacatattat 180
gtgcccgaat ctgaccttcg tgtgaaaagt tatgaccatt tgaatttctc gagagcttcc 240
gatgtttaat ttcgagcgtc tcaatatatt gtaagcctga atcggagctc agtgtgaaaa 300
gttatgacca tttgtatttc tcgacagctt ccttggttca attccgagcg tctcgacata 360
ttatgtgccc gaatctgacc ttcgtgtgaa aagttatgac catatgaatt tctcgagagc 420

<210> 31392
<211> 441
<212> DNA
<213> Glycine max

<400> 31392

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tctgcatcgt cacccaacat cgccactaac tgccctcatt gcacaattac attatgttca 120
ttggtatgag ttttatgttc attggtgaat ctgattgtgg cgtttatttg tgttatgttg 180
tggaacaatt acgtcgtcag catcggagaa atcactgacg acggcggcac atgtcgaaga 240
gtgacaagag gagccatggg atgggagact ccaggaggag ggagacaaag ttttgatgtg 300
ggaaggtgca caataaaatt atgcacatag attaacttga aagccaatga tagtgatcca 360

caaagatcac ttaccctcat ggtccacctt agacgcagtt tttttttttt ttttttggag 420
tcctcacttt tcatattatg c 441

<210> 31393
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31393

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agaatggaga aggagaaaga tgaatggaga cgccacttca agtagaagat gagtctagaa 120
aaagctcacc accataggat gccatggata agagcttgaa ggtagaagaa gatgaatgaa 180
gggacaggaa aagaagagca cgaaatttag tgctctctaaa gaagtctgaa ctttgaagtt 240
taattctcaa aatgatcaaa gttcaaaaaa atgcacacac atgacctcta tttatagcct 300
aagtgtcaca caaaattaga gggaaatttg aatttctatt caaatttcac ttaaatntgt 360
ggagccaaat tttggagcca aaatttcact aattatgatt agtgaatntt agttatgggt 420
cagccacta atccaagatc aagtc 445

<210> 31394
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31394

tataaatgga tgatgggtta cttaattaaa caagtattgt atttgagagt aaaacaaaca 60
agaaaacatc atgggttgga tatgatccag tgcatatata attgaggagg atgagaggaa 120
taacaaaaag aaataaaaaa atagaagaat ggtgggggtg ctatggaaga agatcaaggc 180
aaaggtgagg aaggaatagt tatatatggc atgtgtgaaa caaaggtaaa gtgtgagaat 240
gaaggtaaga agtgagagaa gtcacaaact atagaggtn ttttaatttca ctccaaagaa 300
ctatgcatgc ttcatgacac aacctttctt taagtatgag tagggttaga ttgagcccaa 360
gattaaagca ttgtcttann aaatgtattg tttggtttaa tgggaaacta gtctgatgaa 420
taatctanat actct 435

<210> 31395
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31395

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 attaaagaag ttttaattatt ttgatgtgaa acatgtttct actccttata actcatccat 120
 caagttaaag aaaaatttga gtaaaggatt ttcttcacat aaatattctc aaagtattga 180
 ttccttattg catttgacaa acttctctag gccagacatt gcatatgcag ttggtagatt 240
 aggaagggtat actaataatc ctgatcattc tcattggatt gcattagaaa gagtttttag 300
 atacttaaaa ggaatcatca attatgacat tcattataca tgttntcctg cagtaattga 360
 ggggtttaat gatgcaaatt ggatttctga ttctgatgaa acanaatcaa caagtgggta 420
 ctgttttact ttagctagt 439

<210> 31396
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 31396

tgcctaatta acctgaaatt gataggaaat gattattaaa ttttcaaaat gggagtacta 60
 agtacttatt acctatattt aacaaaaagt aattacaaca ctacaaaata accataaatg 120
 agaggagtta gatacaattt tcacagattt cttacacaaa agttagtcgt atttatcgac 180
 taacagatat cattccattc atgattatgt gcaaaaatgc atttttgata taaagtcttt 240
 agacacaaat catcaatgga ttgatatctt cactaatcct ttgtctaaag aaagcttcat 300
 ctgtataaag gaacatttaa catatgatta gcttatcaga ttaatgaata tttcttggac 360
 gataacatcg tattactttc ttatcattaa tccgctggga ctaatgtttg ttgaagt 417

<210> 31397
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31397

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aatatgatag gttgctgctt gatgtgagct ttaacttttt ctagaagcta ttgactacta 120
ttagttgaat taagtagtgt gttatgttgg ttgaagataa ataaaatgat attgggtttg 180
taatgcagct ggaagatcct agcattgaca ttcacaagga agggaaatac ttgatgcttg 240
ctgttcagga gctgggttca ggggatcaat gtgaacgaag gtttgtattt ggccgcgaaa 300
gccggaagcc taaggcctcc aatgatgaaa acaaatttac gaaagatgga acatatccca 360
agagcttgct gcagacactg ttgatgagag cagggcactc cccaccanaa taaaaacga 420
aaca 424

<210> 31398
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31398

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acaaacgggt aggattaata cctgtttatt agggatgggt tgcagatgga tatttactga 120
caaaaaatta atggggatgg gttcaggtat gggactata gtaccgatcc catctcacct 180
catcatgccc ctatgatata tattagtttg attaaaatat cttttatata ttactaatta 240
ttaatttaat ggcaattggg aggcaacctt acccttggtg atgcacataa atttgtcatg 300
cctttatgtg aattatggat caatacatct ggaacgcac gtagattgaa tgagaactgg 360
ttttgaaact taaggtaatg cacaaaatat catgtaaatt taccctaata acattntttt 420
aatgcttaata aaatc 436

<210> 31399
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31399

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tgtaactatc aagattgacc aaaagcaagc gcgacagtgc tatgcaaaga tcctgaaggt 120
 agcactatat cctcccatcc gagagccgac catgtctcac atcacagtga ctaaagactc 180
 tcaagtcatg acagtggacg aagggctctca naactgagcc ctaaccatct gccaatccac 240
 ccacgacgag tgacatgtgc tcacgagcac cccactaagc ctccaatacg tgccacccat 300
 ggcatatttg cacgagcata ttgctatgtc tccagcatat gtcacccacg gcaagtgaca 360
 tatatgcana agcatactac taagccttca gtacgtgcc cctgcggcat gtgcgcacga 420
 gcactctgct aagtctc 437

<210> 31400
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31400

tcgggctgct caattgctcc aggttgctgc atggaagggc atatgtctgt atgggtggtca 60
 atagaggagc ataaaccaca gacccttgca acaggtacaa atttctgggt caaggccagc 120
 tggggtacca agttaaccaa tgcattccagt tttccttcaa gcttcttagt ttcagatgat 180
 gcagctgagt ttgtagctac ctcatgcact cctctaataga ctatagcatc atttctggcg 240
 ctaaacttct gggagttgga agccatcttc tcaattaaat ttctgacttc agcaggagtc 300
 atgtctccaa gggctccacc actggcagca tctatcatac ttctctccat attactgagt 360
 ccttcataaa aatattggag aagcagctgc tctgaaatct gatggtgagg gcaactggca 420
 catagttntt aaatctctcc cagta 445

<210> 31401
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31401

nttacctgct tatcttgacc canatttgca acttcaagat ctctcactg gtgtaagctt 60
 tgctcaggc ggtgccggat atgatcctct aacagctgaa ttagtggtac ataaccatat 120
 attcaacctt gttcatgcta tctatcaatt aataatttac tttggcacat cttagagcta 180

[illegible]

ctaagcttga cattggccat gctaattntt ttttgggaagg caaaagatat ataatttatt	60
tataatagaa aaactagtac cagtggccat gctaattgatt gctaattcttg tgtttgtcct	120
ccaaaatttg ttttctggga cataaaaagat gtaattgatt aaaaagctca atttagtatt	180
caatttttga ttgtgttttag atttattggc tctttatcac cttgcatttt gtgcgcaaatt	240
atctgacaac ttttttctcc cctattttaa ccagagtcct cctgaagttc atgccaacgc	300
ggctgaaaca ttgtgcacaa taactcgaaa tccctcatcg actctagcaa ttaaaactttc	360
aagcccaaagg tttgtattct atggntntat gttcttctct gatattgtaac tctgaaataa	420
ttatgtatat ttttatatat g	441

13094

agtttgacgc aacac

435

<210> 31406
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31406

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tagcatcatt ttggcactaa actattggga gttggaagtc atcttctcaa ttaaattcct 120
agcttcaaca ggggtcatgt ctccaggac tccaccacta gcagcatcta tcatacttct 180
ctccatatta ctgagtcctt cataaaatat tggagaagaa gctgctcaga aatctggtgg 240
tgagggcaac tggcgcatgg tttttgaaat ctctcccagt attcatatag gctttctcca 300
ctgagttgcc taatgcctga aatatccttt ttgatggtcg tggctcctgga ggcagagaan 360
atTTTTtcta agaatactct cttgaggtca tcccagctcg cgatggacct tggagcaagg 420
taatatagtc agt 433

<210> 31407
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31407

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tccgtggtaa ggccaccctc atcatcatct acaatcaaca aaaatacttt agaagcgcac 120
ttgtggccac gatgatattt ttcatacaca ttaaagcaaa ggccacgttc gcgacacagg 180
gtatctctc ggaggataat cttttaacag gactgggggt tgatggtttt aaagggttga 240
gcancgagga cgagggaaag gaaagggttg acgaagaagg agctgaggca tgtggaaaaa 300
aattgtgagc aggaatggcg ttgggacgac cacggaaggg ccgacgagtg tcaagaaact 360
tctcttccta gagccaagct aaccccgccg cttgaccaat gtcaac 406

<210> 31408
<211> 229

<212> DNA
<213> Glycine max

<400> 31408

aatcagggga attccgactt cagaagaaag cctagaatca agaatccaga ctgcgatct 60
ccagaatcaa gatcaagatt cccgaatgaa gaaaagactc cttcagatca gtttagaagt 120
ttttcaaact ttgaatagca catgagtttt gacaaacctt taccaagagg tttactcttg 180
gtatcgatac atcttgtgta tcgatatcag tagcaaatga gttgaaaag 229

<210> 31409

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31409

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acctggagat atgtcgcggg ggtcaggaga ccttggggac atcaggtggg gtgctattgc 120
ccaaaaccaa gcttgaccaa tcccgacca ccccgggcat agtcggtcag tgagaacctg 180
tgatgtacct aaacaggcga gtccttgga gtcaacagat aaaaggaaca aagaccacaa 240
agcaaagagg cttgtggtgg ctggccagct gtgaactttg attgatatgt gggttgtggc 300
ctctggtaat cgattaccaa gggtgggtaa tcgattacaa ggcttaaaat tgaagacaga 360
aggctaagat ggtctctggt aatcgattac cacgngtgt aatcgattac cangcttgaa 420
aac 423

<210> 31410

<211> 425

<212> DNA

<213> Glycine max

<400> 31410

cttttgagaa ccattgctct tactggtaat cgattacttt aatctggtaa tcgattacca 60
gagagtaaaa actctttggt aaaaggattt gagaaaaatt catgtgctac tcagcttttg 120
aaaaaacatt ttcatactta tcttgattaa gccttctctt gattcttgaa tcttgagtct 180
tgaatcttga tctcgattct tggaagcttg aaccttgaat cttgattctt gattcttgaa 240

COOLIDGE

```
<223>      unsure at all n locations
<400>      31411
```

<210>	31412
<211>	411
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      31412
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13097

cttgagtttt atgccaatgc ttggccaaca gaggaggggg tgcgtgacat g

411

<210> 31413
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31413

tcanaactaa gaaagaaact attnttgggtg aaagaaattg gaagaagatg atggaggatg 60
tctcctccag cctctaaacc ctaactctct cagtttttct gaactaagct ctctttgttg 120
ctcaaaactc atctttctcc ttgaaactcc gccaaacctca gtgtttttaa ggctcttgga 180
ctcttcagct tccgaaagct cgctgagcga gcatggctcg ctaagcgaga gttagtgaat 240
tttcgcttaa cgagagtggg cgcgctgagc gcgagaagag acaacatgct cgttgggcag 300
gctggcttca cgctggacaa gcacatctct gacttatcat cttctanggt ttcccaatca 360
actaagcgag ttggatgcct tgcaaagcgg atgcatctcg ctgagtggat ntacctctct 420
aagcgagtca tcagct 436

<210> 31414
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31414

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caaagtcaga tgtttccact ttcaagtaag aaccagatga acccatttgt gaagtctgga 120
agtgattcaa atcattgttg agaaaatgtc ccaatcatgg ttttgatgat gttaccagc 180
taagcatatt ttgcaatggt ctaaggccta aaactaagat gattctggat gcagtcgcta 240
gtggaacaat tatgtttgta gatgttgaac aagccacaag gataattgat gcctttgctt 300
caactgatca ccaatctcag cataacagac aatcgataca gaaaagagga gtgttgatc 360
tcattctcaa gggtttttca aaggaagtgt aaaaacattn tgttgtggta cctataacac 420
aagagacgct gagagaagct c 441

<210> 31415

<211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31415

tagccctaga ggggatggac ctttttaggtt ttggagagga taaataacaa tgcctatagg 60
 ttggacctcc tagaagagta tagagtcaac accactttta acatttctga tttaattcct 120
 tttgcaggtg gagttgatat tgaggaggag gaactaacag atttgaggtc aaatcctctt 180
 caaggggaag gggatgatgc aatcctccct atgaaggag cagtcactag agccatgagc 240
 aagagactcc aagaggattg ggctagagct gctgaagaag gccctagggt tctcatgaac 300
 ctcacggtag atttctgagc ccatagacca aggttgggtc caattgtctt tgtacatatt 360
 agactangat gtcattatat ttgatccttg tatttanggc tccataatgt angtagggta 420
 ccctagaaat at 432

<210> 31416
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 31416

tataattcta atatatctct taatgagaac aatgcatggt attgttacag ttcttgagat 60
 tactttcaca agaattggac gatggttctt ctcaaagggt agatcaagaa cgtgctttgt 120
 caagtgcggt tgatggtata gcacttgaca tgcagagaaa atccgagtct tctgagtgtg 180
 aaagagagaa gcttcgtgaa tatgagcatc aatgtcgtga gaagatttca attgatgatg 240
 ttcagcctca ttgtgaaaag gtggatgcac atttggaagt tcagaaggag acggatgctg 300
 ctcccttact tgactgtaaa gagacgcagc agggatctgt tgattggaaa attgatgaga 360
 gaccgattga ggaagtaatg atgctgagtg atcagaggaa ggtgacagtt ctgtatgaac 420
 ttctgtctgg ttgtctatc 439

<210> 31417
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 31417

gtcttatgat aaggattttt agattagata aatacagaga aataagtgtata ttaaaataat 60
 actttgagag aaaataacaa ggcctttcat ttatgcattt gataacaaat aaaatagagt 120
 ttgtatttat aaataataaa aataaatcaa ataacacgtt gtgagtactc taggtataaa 180
 tagcgatatg ctaggctaga cggtagctct tacgattgtt catcctttct atttgtgtcct 240
 tcctctctc ctgctcagga tcccttctct atcctgcaac ccaccatacc tatcttagac 300
 aatctacgat ctcggact 318

<210> 31418
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31418

tgcaccaatt ntgggaaatc tgtgagagtt ggaggggtgaa gtcataaatg tcccttatta 60
 tactgaggca tcatcgagg tataccttgt ggaccgaacc cagtcacttg gaacggaagg 120
 taccttgga attgttggtg actacagctg ctactactat cataaggaag cattcgcaag 180
 cttggtgatg aacatgattg aaattgtgcc ataacatcat catcatagac atttattgga 240
 agagagtagc tggggggagg atcatgtatc tcatccgttt ttgtctgtgg aataagctgg 300
 gatagggat ttttagactg ctaaacacaa aagttatgta ataaataaat aaacaatgag 360
 cccaaaatag atggaccaga anatgctcta agagaattnt aactccttga aggagaaaga 420
 tgaataagaa tatc 434

<210> 31419
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 31419

tgatgctggt ggtgtggcaa agaatactaa tgattagtga atttgtagtg aaagagatga 60
 ggctctaaac atatattata aaaagccata gagttcacgt ctaaagtaca gaactttctg 120
 gtacgcatat gtaattagga gcacaatcga ttctaactca caaaaaaaaaa actagcggtt 180
 gtgttaccca aaatcccata ttctcccat ccaaacagca ataatttct ccaaagcaaa 240

ataacattag tcgtccttaa attatattct attaatcaaa gattaaaatt gagtatgcgg 300
 atatatatct atgaactgca aggatcaaga attcaaggta aaaagctact tggtagata 360
 tgtacca 367

<210> 31420
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31420

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 gtcacatcac aacttagatc ttaattgaat tttctagctt actaaccat attaaataat 120
 ttcaaattag ggactatact aattatttca actggtgtt tcatatggtg ttgattttgt 180
 gcatgttaat ctgcctcatg aaattttgtt attcatcggt gtatcagcat gacaatgaaa 240
 aactattat tgtgttgctg accaatgcca caattaaaga gggccaccct gtactatgat 300
 atatagttac ttatgttggc tttctttcac aacaaatatg ttgttttatt gttttatnt 360
 ctatgtagct ggttggttat tcatgttttt tcttggtatg gattttcttca actggagagg 420
 agttttttctt acataca 437

<210> 31421
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31421

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 aagaatcaag ccaaggttat tgtgcaagca atcaatgggg caaacacac caaatgatta 120
 tgatgatgga tggctcaaat tctcaciaag gtaactcat cactttcaa ttgagctttc 180
 aaaactatca tgacatgtag atgagaatca aggatttcaa gtcacaacat gccaaaaact 240
 tttattttca aaacaattac ccatttcttg aacatatcct ataattcaaa gaaaaacatg 300
 caaagtcgta catgcacaca aaattgaccc aaaatattaa actaacaatc cgacgaaact 360
 aacaacatta acaaattaac aaaaccaaca aaactagcaa aaccaaagaa cccccccnc 420

<210> 31422
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31422

ntattcaaga caaagaaatt taagatattc aagatggatg atcaagacag tctctagagt 60
 cttaggaagg gtatattaaa taggaaggga attcctaact gaagtagcaa aaggtttggc 120
 caagtaattt aagttaaaaa gtgtttttca agagatttac tctctggtaa tcgattacca 180
 taggatgtaa tcgattacca gtggccaaaa atgatttaca acagctatta aaatttgaat 240
 tcaaaatttg caccatgtaa tcgattacac atatatggta atcgattacc agcagttatt 300
 gaacgtttta attcaaattt taaagcttgt aatcgattac acacatactg taatcaatta 360
 ccagagaaga ttttcaaaaa atattctcaa cagtcacatc ttttcattnt gttcttgaat 420

<210> 31423
 <211> 501
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31423

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 cctangatct tcttcatcaa tggantccct tgcttttcgg attatcaatg gcagnngaatt 120
 ggcgaacgta cagagagagg agactccact tccccgacac gatgagtata aaagaagctc 180
 atctccatac gacgccatgg atccgacctt ggacgattat cgatatgaat gcagcggata 240
 gatagacgag cagcaccctt tgtgttaciaa ggagccctgt atctgtagaa atctnctctg 300
 atcatctctg aaaaaaatac acacacatga cctctattta tctcctaagt gtcacacgaa 360
 atcgcatgta tattcatatc acacttgtat ttacattga attctgggaa ctcaactctg 420
 gagctcacat ctggctgatt atgatcaccg acatttaatg ttgtgtcacc tcaactaatgc 480
 cagaccccat accagattcc c 501

<210> 31424

[illegible]

<210>	31425
<211>	446
<212>	DNA
<213>	Glycine max

tgtctttntc	agggtatacg	aaagaaggcc	caggaaattc	aaaaatttaa	tgactgcct	60
cacgtactgt	ctcgtggggg	gtatgaactg	cttgacaaga	aacttatgga	ggagaagagc	120
aagcgtggac	atgaggaaca	ttcgtgtact	gaaagcccaa	cactcaacat	cgaccaccca	180
tccctagtgtg	caagacactt	gaagtggaag	atcgcccgca	ctaagcggca	tggccaaatg	240
acgtctgaag	tggcacaaga	aattgcagac	aaaattgtca	gttcatatat	ttttttgggt	300
actatcattg	gcaaataatg	gttagctaac	ctagtcaa	attgttttatt	caaattcaac	360
aattgtatat	gcatgcagga	ttcattacag	gaacaagcaa	cacaggggag	ttntgttctg	420
catggggcgac	aggacatact	caacac				446

<400> 31426

agagtcgctg atatacacct actccatcat attaagttcg tctgactctt tacgtctcca 60

aacggaccga agctccgaga cgctgactat atgctcgtac acgccacgtc atcattcact 120

ctttctttgc agtacaacga aaatcctatg cacctcgtat atctataaaa gatttcattg 180

aatgcttaaa agcctatacc tgaattaaag gccttacgtc ttgggatacc atatacttgt 240

accaanttct ataaaaataa atacgct 267

<210> 31427

<211> 444

<212> DNA

<213> Glycine max

<400> 31427

tgaacactct aaaaagaaat gcaagtactc aagatttttc aaaggtgaaa gaagtgccta 60

agagacattg agacatagaa gcctgcattg ccatgtttgc aaacaacagc atccaaagca 120

atgaaaaaat tcacaaggta tggaactaag ttactgaacc tgtataagag atgccatcat 180

cattgtccat tgtaatcatt ggtggagcat atggggagac attggatcga gcagtgaagt 240

tagatgactt tactgcagga tcagaaaccc tttcctggaa aaaaaaaaaa aaaaaaactt 300

gctaagcatc taaaagtcac actgaatatg attagaataa agaaagaacc tagagtttcc 360

agtatttcac aaatgcacaa atacttcatt agctttcttc cttttcgtta cttttgctct 420

gtttcacttt cctatatttc ttac 444

<210> 31428

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31428

tncatcaggt gctaagcca atttcactta ctacgctaa tctcgagggt ggcgctaagc 60

gtagcgtcac gatttcagag cctattttaa gcttgtcttg tgtagaatta gggtagcact 120

tttatgacag cttctacaga cggtcagggc acagattttc agagcagcca cgggcctatt 180

tatggaaaag agccctagaa gcataaaaga ggagcaactt atgcattgaa gcctacgttt 240

tgtcatttga gagattattg agtagagagt gagtgtgaga tggtgagaag aggaggagga 300

atcccccttc ttatgtatgg aactatcatt ctctgctttt aatctcattt attattaggg 360
 tttctttgta atggctggct aaacacccta gttgagggat tttaatgaac acttgatgta 420
 atacccaata tctaata 436

<210> 31429
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31429

ntgtcctcag atccctcttg ttggactaga cttataccaa actacattat tgtaacaaca 60
 tacttaaaac caaaacttaa tctgcagatc cctcttgtaa gactaagttt caattctgct 120
 tcattcaagt tctaaggaaa caatacattt cccaatgtta aaatcaccta actaggcaca 180
 caaatgggtg atcagaccaa gagcatacaa aatttaagca ctggaagaag cattgaaçac 240
 aagaaacaaa atcaattaga tatgaaaata attacatcga ctgttcatta taaatcccca 300
 acaaggggat ttagccaacc attacagacg aaaccctaac aataataagc ttacaatacc 360
 taggaatttt attgatatga ttcttaaagt agatacaaga attaagaaac ttacctaaga 420
 at 422

<210> 31430
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31430

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 ttcattctct gttgaataaa attctttatt aaaatgacta aattcaattt ctctttaaat 120
 gatttatcca aacatgtaat ttaccttga aatatttcaa ttacatgatt aaaatgaatt 180
 acccagttaa aagtcacat ctaaacacac tcttattgat tttatccggc tçgtctagtç 240
 gaatttacct gtagtcgaga caaaaaaat tacaaaatac ccaaaatggt ggtcaaacaa 300
 tatgaaatcg aggagcagaa aatcaattcg tgccccaatt gttaccaat catacaaagc 360
 aaatcaatca actctatagc gtagagcatt gtacaatacc aagtccagcc gcacaaaatc 420

aatc

424

<210> 31431
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31431

tgtaggatta tggngtaccg gtcacatgtg gtactatgtg gcgatcgggc gatggtacaa 60
 gtcgactctc cacgtccaca aatcacacat aaatccacca tccccagttg cccaccttca 120
 actgagctca cgtactccca catagccctt atcctcgttc ctctcaacac cgggtcccca 180
 tcaatccctc caagcttcca caacatccaa gcaattaaaa atccaaacat catgaactat 240
 caaaaccaag aaaacagggc agaggcaaaa aactctgccc aaaacacaaa caaataccac 300
 aactttcctt actcaaatac ctcaagtaaca ttctcttcgt tcctattcgt tcaccgttgg 360
 atcgtctcga anaatttact ggaggtccct agtacataaa tctacacttt gaccgttggg 420
 atctgctaga aaaca 435

<210> 31432
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 31432

ctccaataat tcaaattggtc ataacttttc acacggaggt tcgattcttg cacatgatat 60
 atcgagacgt tcgtaattga acaacggaaa ccctcgagaa attcaaattg tcataacttt 120
 ttactcggat gtccgattca ggcacatcac atatcgagac gctcgggaatt gaacaacgga 180
 agctatgaag aaattcaaatt ggtcataact ttctactcga atgtctgatt gatgtgcac 240
 acatatcgcg acgctcgaaa ttgaacaacg gaagcaatcg agaaattcaa atggtcatac 300
 ttttctgacc gatgtgcgat tcaagtgcac cacatatcca gacgc 345

<210> 31433
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31433

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aatatatatg tgaggggtag aggggtgtcac actatatata attgtttatg ttttagtggt 120
ttaatgataa acttatttga ctaacaatgg attaggggtta ctataatacc tanggttttag 180
tggttatatgt cttattaggg ttccagtttta cttgaatacg taaggccttag tggtatgtga 240
ctaattaacg ttcaatgtta gttcagtact tanggtttat tgttacgtga ctaatatagg 300
gtttatgggtt gtgtgaatac ctaagggtta gtgttacatg tcttattacg gtttagtttt 360
acttatatac gtaagggtta gtggtatgtg actaattaac gtgcaatggt agttcaatac 420
ttatgggtta t 431

<210> 31434
<211> 291
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31434

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agaatacact cattgtggca tgacatggga aaagaccaca actatagcat atacattaaa 120
agatgtgtga gtccagtata catatagatg ataccttccct gcattcattg gggctcaaga 180
tgattatatg tgagtcttag actcttctac tgcctaaata tatagattct gtagacttgg 240
acttacataa tcacgaagtc tatgatgtcg tggaccatga cgataatgct a 291

<210> 31435
<211> 369
<212> DNA
<213> Glycine max

<400> 31435

tttccgtaat tgtggtataa gtgtatcata aagtcttttc cataagaatt agtcacaatt 60
gccttttggga atgagttctc caaacaaaaa actaaccaag caaaagagtc aaaacaacca 120
cttacctaca gtatctacct caacccaacc ctcaaaggag ctatgcacag aatgtagatg 180
ctacctcgac ccgaccttgg cggagctgca ccaaacaac caatgttcgt gacattcgac 240

ggatataacg atgtctacgc cagtgcaccc ttcacggaaa acatacttga atgaaaatgg 300
aagaaggtgt tgggagtagg tcagctgctt ttaagacaaa gggtgaataa aggaaagtta 360
aatacatca 369

<210> 31436
<211> 412
<212> DNA
<213> Glycine max

<400> 31436

tgccaccag cttgccagc cgagctcagc tcgcccaggc gagcaagggt gcttcctcca 60
gaagcaacag ccttctggag gaaggatctg gaaggcccaa gtgggccata ttgctatttg 120
cactcccatt ttactaaatg ccccccttc tatttttttg gtaattcttt ttccgtaacg 180
ttacgaaact tttacgaatt tcgtaacgat acttattttc cttccgcaag gttacgaatc 240
cttacggatt atgtatttac tcttttttag ctttcgaaga agttacgaaa actcacggat 300
tgcgcaaaaa cacctctttt cgatttccgc cacattacag aatttcacgg atcgcgcaag 360
cctgcttctt tttgatttct gacacgtctc gggacttcat ttattgtgca ac 412

<210> 31437
<211> 443
<212> DNA
<213> Glycine max

<400> 31437

tgagatatcc gtaaagatca aagaagaggt gaaaaagtag ttcgtcactg gctttttggc 60
agtggttcga taccgccaat ggggtggccaa tattgtgccg gtccctaaga agatgggaag 120
gtatgaatgt gtggactatt gggacctgaa ccaagccagt ccaaaggata acttcccttt 180
accacacatt gatgtccttg tggataacac atccaatttc actttgtttt cttcatgta 240
cgggttctcg ggttacaatc agataaagat ggtgccggag gacatggaga agactatgtt 300
cgtcaccttg tggggaatgt tctattataa ggtgatgttc tttaggctca agaagctgg 360
ggcaacctat cagcgggcta tggtagcatt attccacgat atgatgcaca aagagattga 420
agtctacatg gatgacatga ttt 443

<210> 31438

<211> 381
 <212> DNA
 <213> Glycine max

<400> 31438

tcaataactg ttcatgtcca ttacctgtag aaatctcaca aatgtctgga cttaccttct 60
 taaccttaac ctacaaccag gtctctggac ctattccatc tgaattggga aagttgactc 120
 gccttatggc acttgatctt gccttcaaca atttactgg accaatccct ccaagccttg 180
 gaaacttgag ttctctccta tggctaacct tttcagataa ttcgttatct gaagaaatcc 240
 caccagagct gggaaactgc tcaagcatgt tatggctgaa ccttgcaaac aacaaactct 300
 cgggaaaatt tccttctgag ctaacgagaa ttggaaggaa cgcaagggcc acatttgaat 360
 caaataatag aaaccttggg g 381

<210> 31439
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31439

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 gcctatagac ttctgttgcc agcagggtct cgcattcacc tgggtcttca ttgctcacta 120
 ctcaagccat ttcttcaaga tgttgacaat caactcgcgc cacttccact cccaccaacg 180
 accttgata accaactgt gatctcatcg ttagctattc ttagctcgcg tcaggaaggt 240
 ccagatgaag acatgtatct ccaagttcta gtgcagtgga agggctctca cgtagacgac 300
 acctcgtggg aggactgggc cacattgaag ggcacctatc accttaagga caaggtgatt 360
 nttgatgagg ttgngaata tagaccaagc gggtcacaag cagtccatac cgagaggccc 420
 acaagaaaga tcacaacacc tcga 444

<210> 31440
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31440

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 atggaacttc ttggtctttt ctttgtagaa cttggcattc tcgtaagctt ctaggaggat 120
 ctcatctaac tcaactcagtt gcaactttct ttcctcacca gcttgatcca tagagaagtt 180
 gaaggtcttc actgcccagt atgctttgtg ctcaatctcc actggaagat gacatgcctt 240
 tccaaagaca acccgataag gagacattcc tatgtgtgct ttttaagaag tcctatgtgc 300
 ccaaagagca tcatcaagcc tagtactcaa atctttcctg cttggctaca caatcttctc 360
 taaaattctc ttgatctccc tgtagagat ttctgcctgt ccattgggtt gtgggtggta 420
 tggatggat accctgtgcn 440

<210> 31441
 <211> 435
 <212> DNA
 <213> Glycine max

<400> 31441

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 cactccctaa aattgcccta atagtgaaca atttgaatta ttacctaata atcttaggtt 120
 cagatttcat taccgtaata ttataaaaga aagtaatagt gtaggactta ttgttcttca 180
 acttatttat acatatcttt ctattttaat ctcaatttaa tcaaatagat tttttctttc 240
 cttgtaatat tgatagacgt actttcttac aggaaaatta agtaaaatat ttcaaataatg 300
 tggatgaacat tttctaaaaa agacagataa ttataggatt attactagca ctgtatgcac 360
 caaatcacia tctattctgc tgaaactaaa gaatcagata taatgaactt tgtgaaattc 420
 ttgacagtgt gtact 435

<210> 31442
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 31442

cacttaaagc tcttcgtgca atgaactcta actatctacg ccattaatgc ttacattaaa 60
 tgcattggtcg ttcttcattg agagagatca tgttgataga ttaacgtgac aaacacttca 120
 gccgaaaagt cacttctttt atcaaacttg atccgcatag tgaaacgccc ttgatcaag 180

gtcaacactc tcaaattatg gacttcattt attattcata agattttgac ttgatagata 240
 aaagaatctc aaacgcacag tattgaataa aggtcttaaa tgcaacacct acatgctatg 300
 tcacatcatg tatgtgagag acatcatctt gaactccaaa cgatgagata cagatcatga 360
 tccggccaca cactacact 379

<210> 31443
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31443

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 attttttgct ttaccttctc ttccattatt ttttcttcat tttttctcca cgtatctcct 120
 caaatgtctt gtgctaaatg ttcttaacat gattcttttag agttttcacc gattaaactt 180
 gctagagaag ctagatttta ttttctatgg ttcaaatttc ttgttcttgt tcttgaacca 240
 tgaattgtgt tgagtttaag ttcctttgag ttttgtcttg ttattttttg tggctgaaat 300
 ctaaaccata aaattcttac aaaaatatta aagtagaaga aaacctcaaa aatctagagt 360
 gacttgttca cctattgtag ttntgtcata gaagtcatgt ctagtcatga aacttgtcac 420
 ataagatttc ttatg 435

<210> 31444
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31444

ttntaactct taatattatt ttttcttata aaactgcaaa caagtgcaat tacattccat 60
 ataagcatat gctctaaata aacagctttt tagctcttag tattctaact tgatgcaata 120
 aaataattga tgtttgcttt tgggtattat tcagataata ttttttgtaa aaaggtttta 180
 aattgaaaga ataaaaaatt tcatacatga gtataaacia aagattgttt tgtagataaa 240
 cagagtgaata tattacaact tcaacaaaat cattcaaata atatggcctc aattttgatg 300
 tgcattaaag aacaaaacta cagaaaactt agcacattca agaagcatag ctactttcat 360

atttctgctt gttaatgttc cctctttttt ttgttccgtt attttttatg tcaagcatag 420
attntcccat gt 432

<210> 31445
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31445

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cgagtgcatt ggatttggtg cgaccatgcc ctctgattt ctagctggga aattggcgag 120
tggaggaacg ccccggcatt tacgcaacga gcataatgta aacctttacg gttttaaaag 180
ctctatagtt aggcctaggc tttagagttt ttctttttgt taaggctttg tgtcttttgt 240
ttttgaattt ataatacaag gatctttctt catctgttcc tacgtctcta cccattctca 300
ttcatttgca tgtaacttc tttatttctg aaacggaaga tccgatgacg agtccccga 360
aggtactaat acctgggacc cgcttatcaa ctctgagaaa gaaacgaatc aaacggaaga 420
tgaagggaac gaggatgtgg gact 444

<210> 31446
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31446

tgtagaattc accccaattc cagtgtccta tgctgacttg ctcccatatc tacttgataa 60
ttcaatggta gccataacct tagccaaggc tcatcaacct ccatttctcc gagaatacga 120
ctcgaacgca acgtgtgctt gtcacggaga agccccgggg cgttccattg agcatggtag 180
ggctctaaag cgtaagggtg aaggtctaatt tgatgcgggc tggctgaaat ttgaggagaa 240
ttgcgtgtaa atcttgacat tgacaagaga tgccacacat ggggcaattt tgaaagctgt 300
tgtaggtgt ccctaatacgc tcatcagggt ttccaagttt atgccattat tgtaaaccac 360
agctacaatg ttaaataaaa tggataaagt tgatatcttt gtccctcatc ctctcacaaa 420
cgcatgtttg cttattcaac tntcatcg 448

[illegible]

cttgcccttg	caattccaag	acactagtga	gcttccaagt	atatgacatg	taccatttgt	60
aattttccta	tctaatttgc	atcttccaaa	atcagagtct	gaaaaacctt	ttaagtttaa	120
ggaagttcct	ttggaatacc	acaaacctac	attggttgtg	cccttaagat	acttaatgat	180
cctcttaaca	gtagttaagt	gagattcctt	tggattggac	tgatatattg	cacataatca	240
aacacttagc	atgatatccg	gtctacttgc	agttaggtag	agaagtgatc	caatcatacc	300
tatgtatctt	gattcatcca	ctgatttacc	tttctcatct	aagtcaaggt	aggttaatgt	360
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tgattactgg	gattaattgg	atgagttg				448

<400>	31448
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tccttgaaa	agacatcttt	aaattcctgc	aataagggtt	gaacactagg	agaaacataa	120
atagttaact	gattagaatt	atcactctct	ctcttttgtg	tatcactctt	ttcctcgggt	180
gtatcactct	tctttttcat	attcctttgt	ggagcctcac	tattttcttt	ctcttgttct	240
ctcttttctc	tcattctgat	ttggtcatca	cacacttctc	taggtgatag	aggtttaaga	300
gtaaacaagg	aagatttgat	caacaaacgt	tgcatttgtg	tagtccacgc	gtccagaaat	360
aagcgttgag	attcatccag	ttgatgatat	acaccaccat	tgtcaccagc	tcttgccatg	420
a						421

13113

[illegible]

<210>	31450
<211>	437
<212>	DNA
<213>	Glycine max
<400>	31450

<210>	31451
<211>	438
<212>	DNA
<213>	Glycine max

ntagatagct tgttgtaatc gattacgaca accctgtaat cgattattac agagagtttt 60

gcctcttgaa gaaacttttc taacttagaa acttttcttc acactaatca tgatgatgca 120
 tgatgcaata caaatatcaa atgtactaag atgcaacaac caagataaca accaatacaa 180
 atgccactca agggatttag gcatgtaaaa gtgaaaactt cttcaagctt ttctttgagc 240
 ttcaagcttt agcctttaag ttgttcacca tgttgctcct tctatctcta acactgcact 300
 ccattccatc ccaccatggt tgtccttaac cagcaaaaac gactntgtta tcctttgtgt 360
 agaccaagca atgaagtaca taaaatttgg gataaatata cttggacacc tagtangaga 420
 gagagagaga gagagaga 438

<210> 31452
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31452

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 tgttcaaagg acactttaaa tcccttttta atcaattgac ctacacttag caagttttgg 120
 tcaatggttag gtacataaag aacatctgat attaatgtga tacctgaaca tgttgaaatt 180
 gcaacagttc cttttccttt tactgaaata tagccaccat tcccaattct gacctttgag 240
 acattanttg gcttcaaadc cttgaataga gtcttatcat atgtcatgtg gtttgtacaa 300
 ccactatcaa tcaaccaact ttcaattgat tcaactactca agaagcatgt ggccacaaac 360
 agttgatcct cctcttcttg attagcaatc tgagctccct catcatgat 409

<210> 31453
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31453

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 aaatcttcag aaacaagtca tttgaagaat tgtgactttt ggaaatgtat ttttcaaat 120
 caatcactgg taatcgatta ccattaaggt gtaatcgatt acacatcaac aaatgtgact 180
 ctttatcttg aattttgaaa attaaaaacat ttagaagctc tggtaatcga ttgcaagtat 240

tgtgtaatca attacataag tttaaaatac tttaaaactg tttaaacata agttataact- 300
 cttgaaatctt gaaatcttaa cgttttaaaa cactggtaat caattactac cttctggtaa 360
 tgcattacca gagagtaaaa ctctttggta atgaatttgt gaaaacttct tgtgctactt 420
 caatatttg 429

<210> 31454
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31454

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 gtaatggaga aggaagaaag atgattggag acgccacttc aaggagaaga tgaatcaaga 120
 agaaactcac caccatagga agccatggat aagagcttga aggtaggaga agatgagtgg 180
 agggagagga gaggcacgaa attttgagcc tcaaatagaga tctgaacttt gaagtataat 240
 tcttaaatga tcaaagtga aaatatgcac atacatgacc tctattttaa gcttaagtgt 300
 cacacaaaat tggagggaaa tttgaatttc tattcaaatt tcacttgaat ttgaaattga 360
 atttgtggag acaaattttc gagccaaaaa ttcactaatt atgattagtg aattntagct 420
 at 422

<210> 31455
 <211> 487
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31455

naagcgacgg tggggtttgt ttgacccttg cataacgaga actctgaaac tcagcttgtt 60
 gagtaaatac cagccccaat tttatgtgga cctaattgag cngngaaggc aggacgtgtg 120
 caatatatga gaaacaattg tccgtttcac ttcctaaaga tacagagatc gacgatgact 180
 aacacccact tctgtgcggg ggttctccca tacaggggag catcatgtga tctaaaggac 240
 tacaacgggg actattggaa tagctaacag gagcgtccaa ttttcagcct acaacgttga 300
 acgttcata gatagactag agtcatacac cgcattgaaa acgcacacaa ttaacgtgag 360

taacgtagat atgcatgagc taatgtgaac gctctcttac cctttctaga attcaatcga 420
catagacacc tcgtagttct tccatctcat gatgaaaggt accacaaata gtctcgactt 480
tatttcg 487

<210> 31456
<211> 303
<212> DNA
<213> Glycine max

<400> 31456
agagcagagg catcaacttt aatgttcatt ttattaacat tcggttagcc cataaaccgc 60
tggcatgtta agacacgcgt tataattctg cataaatttt acattaatat gccattttga 120
atatgcgata tatgtgaaag gaacttctaa tcacacctgc cggtataaaa caatattatt 180
tattctgaag gtatagaatg gtatgataat cggtgacgtc ccactggcgt acttagaccc 240
ttccttatat attaaagttt tacaacgtcc cctgaacaca acatctttta tgtatgtcga 300
cca 303

<210> 31457
<211> 407
<212> DNA
<213> Glycine max

<400> 31457
cttgcttgag tgatgatcca tgctctcgcc catctatgga tcatgtgtct aagaagctta 60
tgagagggat atcaccttta gcacaccagc tccctatgaa tagactctgg acaactatct 120
ttaaggacta aactaattca cgattttggt gttcttggtt acttatttat acaccttata 180
tcctttatct tttgatgtaa gcttgctcgt gttgtcattg taatacacca tgtataagtt 240
actaaaggtc gagagtaact agattgtccg gttcatatac tatggcgatt gtgagaatga 300
attggccat tatctttatt gggaaatgct tgggttagag tgagcatgca tatgtacaag 360
ttagtggtga gaataacata gcagtacaaa tgattgactt ttaaatt 407

<210> 31458
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31458

tccttaagaa gcttcattga gaagctagag cttagctaca cacaccctc taatagctaa 60
gctcacctcc ttgagatgaa aagctagagc ttagctacac ataccctct aatagctaa 120
ttaaccccc tgccaaaata catgaaaata caaaaagtc cttactacaa agactactca 180
aaatgccctg aaatacaagg ctaaaacct atactactag aatggccaaa atacaaggcc 240
aaaaagaagg aaacctatt ctaatattha caaagaagag tgaaccaac cttgggacat 300
gggctcagaa atctaccctg aagttcatga gaaccctang gccttcttta gccactctag 360
ctcaatctc ttggagtctt ctatccaata cccttggggg gtaggaatgc atcatcaatg 420
ctatgcaatg caatcaatat gcaatatg 448

<210> 31459
<211> 449
<212> DNA
<213> Glycine max

<400> 31459

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tcttaagctg tcgagaagca taggccacta cctgtccccg ttgcataagc actccacca 120
aaccatctt ggacgcatca caatacacca caaaagattc actcgggtta ggtaacacta 180
aaactagtgc agtgggtaac ctttccttaa gggtagcgaa actactctca cattgggcat 240
cccacacaaa aacttgacct ttacgagtaa gcttagtcaa aggtaaggct agcttagaaa 300
aaccctctat gaatctacgg tagtatcctg ctaagccaag aaagctccta atctcaaca 360
ctgacttagg actctcccaa ctcatcaccg cctctacctt ggaaggatct actggctatc 420
cctccttaga tataacgtgc cctaagaag 449

<210> 31460
<211> 447
<212> DNA
<213> Glycine max

<400> 31460

tatggggcca aatgctttgc ttactgcagg caacacattg atagctagca tagctcattc 60
acggaaaggc cgggtggagga accgtgtaat tacttggttaa caccatatct taaagagaca 120

ttttcttttt tttcta

436

<210> 31465
<211> 429
<212> DNA
<213> Glycine max

<400> 31465

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aagttactgt cgtttgaatt tgctcagagc ttcgataatc aatttctagt gtctcaatat 120
attacgcgac tcagtcagac aaccgagtaa aaagttattg tcgtttgaat ttgctcagag 180
cttcagtatt caattctgag catctcgaca tattacggga ctcaatcata catccgagta 240
acaagttatt gtcgtttgaa tttggtgaga gcttcgataa tcaatttcga gcgtctcgat 300
atattacggg actcagtcag acatccgagt aaaacggtat tgctcgcttga atttgctcag 360
agcttctgtc ttcaatttcg agcgtctcga catattacgg gactcactca gacatccgag 420
taacaagta 429

<210> 31466
<211> 436
<212> DNA
<213> Glycine max

<400> 31466

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attggttgac cacaacagcg ctggggggcg caacggacaa tggctcttca aataaacctg 120
ttgtacatga acaaacatta tatcatgcgc tgaccgtgcc aaacgaacaa gcgaagtcatt 180
tgcataattg ttacactaac tatattcaat gtacctgaac aaaatgattt ccaaacacgt 240
gaccgacaca tatgatgcgg tggccagaag agtcagggtg tggttgactt ctaagaggga 300
aaaatgtcat gctttgttgt tgggacaacg atacaaggat tacgttatac cgtgaagcaa 360
tcacatatcc catgtctgtt atatccatcc acttgccac actaacctga atgaacaaaa 420
catacacatg taagta 436

<210> 31467
<211> 430
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31467

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tgctgattct ttttccgtaa cgttacggaa ctttacgaat tctgtaacga tacttgtttt 180
cttttcgtaa tgttacggaa ctttacggat tacgtaatca tccttttttt ggcttttgga 240
atgttacgga acctcacgga ttgtgcaata atgcttcctt ttgatttcca gcatgttaca 300
gaacttcacg gattgtgcaa caatgctttc ttttgacttc cggcctgtca cggaacttca 360
cggattgcct aacgataggt gccaaagtacc tcgaagcggg gaagcanagg ttgcatgcta 420
tcaaacaatg 430

<210> 31468

<211> 435

<212> DNA

<213> Glycine max

<400> 31468

cttaattaat tgtcttgata taaaatttct acacagacta ataatttcaa agtctataca 60
gtcgtattac ttttaaattt ggatgtaatt gtgtgtttta ttttctaacc cattaaaaga 120
gttagaaaac aatgaagacc acaatatcat ctttttttat cattatttta aagtactaat 180
ttatttcaat acatgtgaaa tttttttaaa aattatagtt tatacgctat ttatttaaaa 240
cataatcttt atattataat acaaaaatat cactatttca tactcataca atcagtatga 300
atataataaa cactataatt tgtctaatta ttattatata tatcattatt atataacaat 360
aacatttaca atagtcgtat tctattacta ttagactcaa ataaaaatca aaatctcaac 420
tatattattt attga 435

<210> 31469

<211> 359

<212> DNA

<213> Glycine max

<400> 31469

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ctgtttcgca ggcttttgac ataatcttgg ctcttggtcg gtgggttggt gagttggtga 120
 cttgctatgc tctgagttc ctgagttggt gtgttctcca gctggtgagt ttgttgtaa 180
 aactgctggt tttgtttact gcaatgattg ttattggtgc accattttct tgtttgctga 240
 gtgccattgt tttgttttag ggtataagaa aaccagacgt actttgcatt ggatttttgc 300
 tttgaacaat ggttttgata accctaaaca ctaaccctag actttgttgt ctactcct 359

<210> 31470
 <211> 157
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31470

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 tactaacaac aattcacatn tatatatattt attcaactaa ctgagattag atagactctt 120
 tatttgaaga acacatttag agtgtggttg gatgaga 157

<210> 31471
 <211> 374
 <212> DNA
 <213> Glycine max
 <400> 31471

aatccatgtc ccatgcgaga ttgtcaatat tgtcaaaatt aaacgatttc tgtactgagg 60
 caagcccagc aatattcttt aattaatatt aaatgatatt tgtatttttag gaacagttga 120
 agaatataaa tgtaaagaaa aatttggcca tcattacttg atttcagctc atatgagata 180
 catcattaaa aatttcagac ctgttcgaat aaataactta attaagtgtt tattatatta 240
 gtgtttggat aaacaggatt tagagtctgg ttagatatat agtcagtttc atttatatcg 300
 aagaagtcac ttattcaagc catcatcaca cgtaacgtgc atgttcaaatt aaatacttat 360
 tcacgctctg atct 374

<210> 31472
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 31472

agctttctta tgaagattcc taaagaatct agagcttagc tacacatacc tctctaatag 60
ctaagctcac ctcccttgaga tgagaagcta gaacttagct acacaccccc aataatagct 120
aagctcatcc ccatgacaaa taacatgaaa attcaaaaaa aagtccttac tacaagact 180
actaaaaatg ccccgaaata caaggctaaa accctatact actagaatgg tcaaataaag 240
gccaaccga aggataaacc tattctaata tttaaaaaga taagccggct catacttagc 300
ccatgggctc gaaatctacc ctaaggctca tgagaaccct agggccttcc cttggatctc 360
tagcccaatc tacttgaggt cttctacca 389

<210> 31473

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31473

ctaagcttgc caattaacct gatattgaga gataatgatt attaaacaca ctaaatgaaa 60
atactaagta tttattacct atacttaaca aaaaatactt ataacattac aaaataacca 120
taaattggga gagtttgata caatttatac aagttttata cacaaaagtt aatcgttttc 180
accgactaac agttcattac atcacgtcag gatacaactg aaaataaata acaagtgcac 240
cagtgattct taattatgtg agtcatcagt tcgaccatat gctggcaata atcgaagaga 300
ctatgaactt catcgaggag agagtacata tcatccatca tcttggtctc tagctagcag 360
ttcaggagtt cttgactctc atttagcgtg agcacaacc tattcatcca cttcatgctn 420
tctgatgca gtagctctat cactttc 447

<210> 31474

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31474

agcttatgca tattaatata tttctctaata caatcatgct cttgtgttct atgttgtagc 60
ctacattact aaacctcgat cctcgtcag actgaatcaa tccaagcttc gtcctcagat 120

ctctcttggt ggactaggcc caattgagac agccctctta ggttttagact aacttacact 180
gagttntgtc cgcagatccc tcttgtaaga ctagactcag ctcaagcagc ttacgaaagt 240
ttagcctaatt ttagcctaag cttcatccgc agatccctct tataagacta agccttagact 300
aaacaacatt attgtaacaa cataattaan accaaaactt aatccgcaga tccctcttgt 360
aagactaagc tntgatcctg cttcaatcaa gttctatggc aacagtacat t 411

<210> 31475
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31475

agaggatgct tcaatggagg aaaataaaga gggagagaat gtataggggg gagcacgaaa 60
ttgaaggaat aaaagaggta gagaagtgga actttgaagt atgtctcaca agactctcat 120
tcatcaaagt gaccacaagt gttgaacatg cttctattta tagactaggt agcttccttg 180
agaagctttc ttgagaaaac ttccttgaga agcttccttg agaaaacttc cttgagaagc 240
tagagcttag ctacatacac ccttctaata actaagctca cctccttgag aagcttcctt 300
gagaagattc ctatagaagc tagagcttag ctgcacacac ctctctaata gctaagctca 360
cctccttgag atgagaagct agagcttagc tacacaccn ctataatagc taagttcacc 420
cgcattccaa aaatacatga aatatacaaa aaagtcctta c 461

<210> 31476
<211> 262
<212> DNA
<213> Glycine max

<400> 31476

tgttcccttg tctttgtttg aaactcacta caagccctaa atgataaacc atgatatcac 60
ccatatcgct taacgggaat tttggagctt ttgaatcggt ctgggaataa gtgtgggggc 120
gttttgtttc attggataac ctgctttggt ggctatgctt catgatgtat tttgggccat 180
acttgatgta cattgatatt ggtaaagtgt gacatgctga tgaaatgtgc ttctcaatgc 240
tatagacaaa aaaaaaatt cc 262

<210> 31477
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 31477

acaattgcat cacctetcaa tgagctgggg aagaacaatg aggcatttac ctgcggtgaa 60
 aaacaagagc agtcctttgc tttgctcaaa gaaaagctta ctaaggcacc tgttctagct 120
 cttcctgact gttctaaact ttagagctaa aatgtgatgc ctctggagtg ggagttggag 180
 ctgtattggtt acaaggtggg cactctattg cttattctaa tgaaagactc catagtgtccc 240
 ccctcaacta caccacctat gataaagagc attatgcctt ataaaagccc tgcaaacatg 300
 ggaacattac cttgctttca aagaatgtgt cattca 336

<210> 31478
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 31478

atcttgtata atggctagac atgatacatg tcagggcttg gtttggttca acgataaaac 60
 ggatgccccca cattatttcc atgacacaaa tgcaaaaaat gatgatttgg aaactttatg 120
 caaaactggg catgcatgcg cctatgcgga cgctcaagtg tcaaatttta tggatcatgtg 180
 atgctagggc tcacgattca tttcctctat tttaaataca cccaatgttt ccaaaatatg 240
 ttcttttatac gatttgtgca ttctccaag tccacttctg gcgtgaggag aaaatttcac 300
 agcattcacc ct 312

<210> 31479
 <211> 285
 <212> DNA
 <213> Glycine max

<223> unsure at all n. locations
 <400> 31479

tgtttacacg cggagatnta cgtcatcttc cgtactcaca agatctgtca tactcacatt 60
 tgagtcacgc tgaccggcgg aaatacccgga gtggtagcc gtataaacat tcttcttgc 120
 atctgtaaga cgaaaagcct gatagcatgc gaagactgac atcgtcttct gcgcccttcg 180

tcaatcgcg cgcacaagcc cattgacacg cggagattta cgtcatcttc ggcgctcaca 240
agatctgtca tactgacatt tgagtcacgc tgactggcgg agata 285

<210> 31480
<211> 398
<212> DNA
<213> Glycine max

<400> 31480

agtctttag caaatgcaaa ccacaataaa ttatagctcg gatatcccat tgagtcccgt 60
aatatatcaa gacgctcaaa attgagtaca gaagctctta gcaaattaaa acgacaataa 120
ctttctacac agatgtccga ttgggtcacg taatatatcg actcgctcga aactgaatac 180
cgaagctgag agcaaatca aacgacaatg acttttacct cggatatccc attgagtccc 240
ctaatatatc gagacgttcg aaattgaata cagaaactgt gagaaaattc taacgacaat 300
aactttttac tcggatgttc gattgagtcc cgtaatatat cgagacgctc aagatttata 360
acggaagctc gtagcagatt caaacgacaa taactttg 398

<210> 31481
<211> 340
<212> DNA
<213> Glycine max

<400> 31481

tgagatgaag aagagttgaa cggttatact tcccgttctt attcggtgac cacagagtgg 60
tacctggaga tatgtcgtgg gggcaagag accttgtgga cgtgaggtgt tgtgctattg 120
cccaaaacca agcttgacca atcaccgacc aaccgggtca tagtctgtct gtgtgaacct 180
gtgatgtacc taaacaggcg atctcctgcc agtctataga tgaaacgaac taataccaca 240
aatcaaggat gctagtgtgg tggctggcca gctgtgaact ttgattgata tgtggagtat 300
ggcctctggg aatcgattac caagggtgtc taatcgatta 340

<210> 31482
<211> 264
<212> DNA
<213> Glycine max

<400> 31482

<400> 31485

ttgatctcaa cattaaatgt agaccttatg atggctcaag cttgttatca tgagatactt 60
tacacacaga tttgctcatc ataatatgat .aatgcaaata gatgctgatt ttaacatttg 120
tattgatttg catctaataca aaataatcaa gagtcctgat ttgttttaag acataaatgt 180
ctttagactt gacaacacat taagaatcaa caaatataca gagtcaatgc acatgcatca 240
tccaccttca acacacaaaa tcattctcct caatcaccat atagactata acattatatg 300
tatgttgacc ccatggaaaa ccataacaaa gtaccccaag ttccc 345

<210> 31486

<211> 259

<212> DNA

<213> Glycine max

<400> 31486

ttgctttgaa gaaatgtgat atgaacctta cacacattca ttatatcct ttatgtgaaa 60
agctctatgt agagtttaca acagctctca aaacactttg attatcttga gagaatggac 120
taaaagacga gactatatat cctgatgtgc gacactcaaa tagttagtcg ttgcgcaaca 180
ccaacaacaa atcaatctta tctgtatata atcgataaca atttggtacg acaaataata 240
ttgggctaca tcgaacttg 259

<210> 31487

<211> 302

<212> DNA

<213> Glycine max

<400> 31487

cgtctaccat aatatttggg atgactaaaa ttcatgatta ctatataatg tcgaactggt 60
ggcggagtgat gagacattgc cagaaatcat gaaaagacat gtagttgcat gaaattatgc 120
gtctatcttg atataacaat atacatatga ataggtgtga ctctctgaaa agattaaatc 180
tttacattac cagacatgac atagttttaga aacataacca atttacatgc agaataacac 240
atztatatat acttcacca tccctttcat tcgaatcgct tcccttctct cttatgcata 300
aa 302

<210> 31488

<211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31488

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agctttttaca aaacactgtg gccatctttg tctttagaag ctaaagattt tgtcaaacgc 60
atattgaata aggatccaca gaatcgaata tctgctgctc aggctctaag tgagttattt 120
ttcttgcttc tatcatcaat ttcaataata tctagtaaga cattnttcaa gttgtcagcc 180
ataatcttgt gcttgcaggt catccttgga tacaaaattg caataatgta aaagttccac 240
ttgataaatt gtcagccata atcttatgct tctgttgga atgaagtatt cctactttat 300
tccaaccctt gtgtttgaaa atgatataata atcttctgac cacaagtatt ttcgatttat 360
ttctctcttg taaacctctg agaattga 388
```

<210> 31489
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31489

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ntagtcaagg aaagtaaccc anatatgacc aagatgagag tggtgaaaga gcctaacaag 60
actntcctaa attcgggttaa agattcaatc tttgggtgatg ataatgctta tganacggta 120
aggaagttag caaatgggcc taatagatat gttataactt ggcaaggata cgatatcaac 180
aagtattcat tctacacgaa atcataagat ggcaagagta caatgcanaa cagtgggggtt 240
agtccaaggg ctgaatctca acactttggtt actgtacatg atgacaatcc ttgtctagct 300
cacatgcctt actttggagt cattgaagaa atttggggagc ttaattatct aaaattcatt 360
gtctgtgttn ttaagtgtaa gtgggttgat agcaatatca atgtgcanat cgatgatatt 420
ggatttactt tggtagatct ga 442
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<210> 31490
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31490

agcttggagt tatgagctct ctctctctaa gntatagatc cactcctccc ccttatttgc 60
 ttgcagatgc cattgggggt aactctgctg ctgaggcttt agttcttttt catttttatg 120
 tgccaaaaaa agagtctcta acttacatta cttccattga ttcatagttt tgtttggccc 180
 ttttttcctt aattttttta aactttaatg tgacttggtg gataatatat ggagtagagt 240
 ttggatttag ccttgtgtca tctaaagagt gtgttattgc ggcgttcaat atgcacgttc 300
 cacttcgacg cttccattnt cacgacagta acgtagaagt aacaatctgt taggttaaaa 360
 atattttgta aata 374

<210> 31491
 <211> 316
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31491

cggtcatctc tagagtcttg gtggcatctt ccaaagtttg tgtggcatg gtggataggt 60
 tcatgggtgag gtggatatac acctcttcag ggcggtttaa gatggctnng tagctatagt 120
 gaatgggtat ggttgaaggt aggggttttg gcaggtagag gcagccatgg acagcangtc 180
 gaaccaagtt gtttaggaata gaggactagc taacgacact aacctatatt tgatcattct 240
 tctctgattc ttatttcctt cctagggtat atntatagtg atcatacaac ggataaggct 300
 tgcattcatg acccat 316

<210> 31492
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 31492

agcttcttct attgtcaatc acccagcaag ccttggcacg agagtgtagc aatgaatgtg 60
 ttgatgaact actagatgga tctgtgagga tcttggatat ctgtagtaca attaaagatt 120
 gcctactgca acacaaggaa agagtgcagc aacttgagtc agctattcgc aggagaagag 180
 atgccgaggc cggattcaca gtttcgagtg gaaaatactt ggcattctacg aagcaggtga 240
 aaaaagcaat tcggaaggcc ttatgaaatt tgaaaggatt caagaatgaa ctcatatttg 300

cttctctcaaa caaagacaac gagacattgt ccatgcttag cttcttaaaa gaatcagaac 360
tagtcaccgt gagctcatta aaagccttct tgggtgttatc act 403

<210> 31493
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31493

tatgcgctat attgcatccc aacagctcag gtccaagagc tacatctttg gcgatatctt 60
tcttattgac tccagctntg gtcacaaaga atatgaccta taatacaaat attcaaattt 120
cagcaaaaaga gtcaattgat gcctctagat gagccagttt attgacatat aattattgta 180
attaatatgt ctatgcagca attaattcta catgaaggac aacttagtag gcacttgatg 240
cacaaattcc cgtttatgac tcatgctttc tagatgtggg tngaagtgtg tgaaagtatg 300
aggtttggtta ctgataaata caattntatc actgcacaag attacattca aattgatnta 360
atgccccaat aatttatctg gtgtcctgan aaaatatgaa gactcatttt ttttctctct 420
tttcaatat 429

<210> 31494
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31494

agctttatgt tttattaaaa acttattaag cttaatagag caagtattta agctctataa 60
aagcctttta attttcttca ttcaagtatt tggcttgtat actatagaag tattcagcca 120
taccgaatat ccaaaaatac cctcaatacc tttaagaatt taaagcaaac ctcttaaaaa 180
gtattcaggt atccggctag gccaaatact tgaatgctta aaatccttag gcctataaag 240
cctctcaaaa gtattcaggt atttgactac gtogaatacc tgagcactca gaatcattag 300
gcttataaag cctctcacia gtattcaagt atatggtaag ctgaatacct aaactcttag 360
actccttagc tctatanagg ccctaaaaat attcatgga 399

<210> 31495

<211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31495

gtgtatggtt tccttgagcc acagtctata ctccacgcan aggacagact tgaagaatgt 60
 caataatata ttgaaacgtg ggccaagtaa tcacattgac aagtgtactt aggaccttac 120
 ttgaatcagt aagtgaatt gatgtcatta ttgtgaaaaa gtttgcatta taagttcttt 180
 aattacattc ttttacttca agacacatng acaacttctt gttatgtgtc cacgggacaa 240
 tattgttggt tgattctctt ctttacgtaa aaagcctgat gttcacatca aggttgcaat 300
 taacagggtta ttggtaaaat tataacaaat ntattgttta ccaagtgtag tatagcaaca 360
 aagtatcttt cgttatatac gtttttggtta ttgtggaaac tagtgcaatg aagaaattat 420
 ccagtaagtt g 431

<210> 31496
 <211> 400
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31496

agcttttcat ttcaacaaca aggatattaa gaggaaaaaa gcaagacaac ttagaagtgg 60
 aactctgtca aattcattgg acgatatact ttgcacttaa atagttcatc ctttgcctag 120
 caaagttaat ttgtttatth gagcttattt gttattcact ttattgagtg tgtgttcttt 180
 gatatttcag tttgcatcag actntggcct ctctgattaa gtatttaaca atacaaagga 240
 aatgaattag tcaaagaaaa aaatggaaaa aggttactct tccaataaat ttcccttggt 300
 cacagggatt aaatatgaat actagaaaga cagaatgatt gtgcattttg aatccatgca 360
 aattgacatg tgggatgttg tgcaaaatgg acatcatatt 400

<210> 31497
 <211> 233
 <212> DNA
 <213> Glycine max
 <400> 31497

taccttttac ttagtggaag ctactaccc gccttagctg aataaccatg ataccacat 60
 atacttacgg aacattgcc aatgcgaata gcgctggcaa taagagcgat gcggccatgc 120
 tttcgtagta ttactgatca catggctatg ctcatcatgt atgcagcgcc tgctacatct 180
 gaaatgatat ctatctgcc aatcgtgaa tttatcttac ttctttaatg tct 233

<210> 31498
 <211> 237
 <212> DNA
 <213> Glycine max

<400> 31498

agctttttgt agttatacat gggaccaact catttaattc caaaaaggaa gtcttatcta 60
 gtcaaggcct gagagaccat acaagtttcc taccaatttc taataatgtg ggccattaag 120
 tctatcatat gctgacaata cccgagaagc ccatgaatct cttcgggggc ggagtaggtg 180
 tctgccatcg ccttggcctt ggctaacaat cggggaagtt cttgactccc gtcaagg 237

<210> 31499
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31499

agagcccggg tagtcaaaaa gaagttcaag tccatagcca tcaaagtctg aagagagtat 60
 gatgaactaa gggacgtaaa tatggccacc gatgaagcct tggaatgaga aaccaagaag 120
 gcccgaaagg aagaacacga ccaaaacaag ttttgagggg ctttataggg cagcaatagt 180
 gagctcaaac tccgaagagg tgaaaggaat catcacgggt caaaggcatg atctggaagg 240
 acgagctaaa ggcttgccctt angtcgaaaa gaaatttgct ccaacagtta aggtgagaat 300
 gaagggaata tgtggggccat catcgatgag tgcaaagaga agctaaatct agcggcgact 360
 cacgagcaaa ggctagagga tgagtacgcc aagatatcag cagaaaggga agcaaggga 420
 agggtaattg attcattgca ccaagaggca gcaatgagga tgga 464

<210> 31500
 <211> 269
 <212> DNA
 <213> Glycine max

[illegible]

<210>	31501
<211>	348
<212>	DNA
<213>	Glycine max

ntntggagta	gaaacatggg	accatctcat	tgtattttca	aaattataag	tcgtatctag	60
tcaaggtctg	agagaccata	caagtttctt	aacgatttct	aattatgtgg	gccattaagt	120
ctatcatatg	ctgacaatag	ccgagaagcc	catgaatctc	ttcgggggcg	gagtaggtgt	180
ctgccatcgc	cttggccttg	gctaacaagc	agggaagttc	ttgactcccg	ttcaggttaa	240
agcaaaccga	tccatccaca	tggttgcctc	ttgggtgtaa	gagtcgatca	ccctttctct	300
agcctctttt	ttcgcgtata	cttgagcata	ctcgctccgc	atcctatg		348

<210>	31502
<211>	332
<212>	DNA
<213>	Glycine max

<400> 31502

13135

<210> 31503
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31503

gacactatga tactcagcta nagtatgccc gagtcattca tccctatgag atgttgctga 60
 tgtattggca atcagaattg ccattccttg gattataggg ttgaaccaag ctcatgcttt 120
 tacanaaagg ttcatcaagt caagttgaaa tatggaaaga accgtcctgc aaaattgggg 180
 caaaagatga attgagtcac atcactgctt cgtctactgc caaacatatn taggattgta 240
 gatgtccttg gtacttccag tttcaccttg acaaagatgt catggaccat gttgaaaatc 300
 taaattgatt caaccccata tcctgcgtaa aaattcccaa tacttcgact gtacatcatt 360
 cgcattcatn cattgctttc attggntgca ttgctcattg cattctttct tttgaaaata 420
 aataaaataa atgaactatc 440

<210> 31504
 <211> 289
 <212> DNA
 <213> Glycine max

<400> 31504

tgacgaagtt atgttcctta aaagccttgg tacaaaagaa acctctaact aagctattat 60
 gaaggtcaat aacctatata ctataaaaca taatactata cctgactctc gtaaaactta 120
 attaggctaa ttccatcttt atatcatgtt ttgagtagca acaattctga atttatagac 180
 tatagtctat ttacataga attatactca atggcctata atactattat cccatgtcga 240
 gagaaagtag atctatatta acatttaata taaaactagc ttggaaccc 289

<210> 31505
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 31505

tacacaacat ccattgcataa caacattcac acagcacaag ctatttcagc caagctaaac 60

$\frac{1}{\sqrt{2}} \begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$

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<223>      unsure at all n locations
<400>      31506
```

<210>	31507
<211>	375
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      31507
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13137

agaanattgc caatcaaaga atgggagaaa gaaaaaaaga gaacgataag attgacagag 300
 agctcatgat caatgatcga aagagaacaa aagacatgtg cagagatgtc tttggaccac 360
 acaatatctg aacaa 375

<210> 31508
 <211> 303
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31508

ctcagctgaa ttggttttac atgatgatac atgattttta cttgatgatt tgatcgggca 60
 agattggatg aggggaagtg tggttttcga aatctgcatt ntgtgcagat ntttgcctgtg 120
 aaattgtgca gcaggatttt gcacaagtgc agaaaaatac tangcatttg ctggttgtgg 180
 aaagagcagt gcagaatgag ttctggatgt ttgctagtag atcccaacgg tcaaaatgta 240
 tgcttatgta ctagagactt ccagtagaaa tttggagtcg atccaacggc taacgaattg 300
 gaa 303

<210> 31509
 <211> 320
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31509

agcttgtatg attatggggt acccatcacc tgtggtacta tgtggcggtc gggcgatggt 60
 gcacaacaag ttttccacat ccacaaatca cgtataaacc caccatcccc tggtgccctc 120
 ctccaactga gctcacgtac tcccacgtag cccatatacct cgttcctctc aacgccgggt 180
 ccccatcaat cctcccaagc ttccccaaca tccaggtaat tcaacatcca ctcatcacan 240
 actaacaac caagcaaac agagcanagg cagaaaactc tgcccaaac ccaaaccaaa 300
 atcacagctc tttctcactt 320

<210> 31510
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31510

nttaatggaa gtcaagagca tgatattgcg ccgataccgt tcaactgggtga gcaggtatat 60
cagcgggttc aacacctgaa cactgtattt gggaagaccc ataagaagga taaaagtcag 120
agttgcatat ggaagaagag gtccattttc tttgatcttc cgtactgggtg tgatcttgac 180
gttagacatt gtattgatgt tatgcatgtg gagaaaaatg tttgtgacag tgtgattggg 240
acgctcctta acattcaagg caagacgaag gatggcttan ataccctgca agatctagct 300
gatatgggta taagagcaca gttgtatcca aggtctgatg ggaagaaata ttacttgccc 360
ctagcctgcc atactntgtc caagaaggag aagataagtt nttgtcagtg tcttcgtcgg 420

<210> 31511
<211> 328
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31511

agcttgtaga tttatcccaa ttccagggtc ctatgctgac ttgctcccat atctacttga 60
taattcaatg gtagccataa ccctagccaa ggttcatcaa cctccatttc tccgagaata 120
cgactcgaac gcaacgtgtg cttgtcacgg agaagccccg gggcggtcca ttgagcatgg 180
taaggctctg aagcgtaaag tgcaaggctt aattgatgca ggctgggtga aatttgacga 240
gaattgcgtg taaatcctga cattgacaag agatgccaca catggggcaa ttntgaaagc 300
tgttgttagg tgtccctaata gactcatc 328

<210> 31512
<211> 179
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31512

atggaatgag cctacacact tatgcttgag tgaaacaatg actgcgatga tngattgatg 60
atacttactt gatctctggc attcttacta gcttatttga tacgtgactc tgatgcggat 120
gctacaatcg ttgaaaatct gcatgcttgt ataaagcagt ggattgaagc agtccatga 179

<210> 31513
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 31513

agcttgtgct tgttttattt aaattcctag gatcatgagc aactatgtgt gtcctactat 60
 gacttgagaa acaaaggggtg atcaaataac aagcagaaat ttaaagggta ctaggttgcc 120
 tcctattagc gcttctttta cgtcttgagc tggacgcgtg atgacttggt gatcacagac 180
 ctagtacttt tgcatacctt tggctttgga cttgggtcacc tactgggtcgg cgatgggtcgg 240
 tacgcaacgc tccagccttt gtagatgagc tgacgggctc tggatgtggc ggcgggtgcat 300
 ctattaccta c 311

<210> 31514
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31514

catcaaagta atacaacatt caaacagcac anactatcac agccaagaaa acagagttta 60
 ggcagaaaaac tctgcaaaaa caccaaccaa aatcacagct nttctcactt aaagacccca 120
 gtaacaattc cttcgttcca attcgttaac cgttgggatcg actccaaatt ttactggaa 180
 gtctctagta caaaagccta cantttgacc gttgggatct actagcaaac atccagaact 240
 cattctgcac tgctctttcc acaaccagca aatgcctagt atttttctgc acttgtgcaa 300
 aatcctgctg cacaatntca cagcaaaaat ctgcacaaaa tgcagatttc gaaaccacac 360
 ttccctcatn caatctgccc aaatcaaadc tacaagtcca aatcatgatc aatcat 416

<210> 31515
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31515

agctttgaaa tttggcatct gaagtctgag agctttgggc agataagtct gctaaagctg 60
 gaggtcgagt tgaagtagaa gatgcaaaaa tgccagctat tgggtgtaaag gaatgaggaa 120

tatcagcttc tctgagctta gtcttctttg tctctggaaa attaactggt tggtcatttg 180
cattccaaca attccttatg atataagcta agtcaatggc tggctcttagg ttttcatagg 240
aggtaagggc atcagatccc actccccctg atctacanaa ggctgtgatt aaagctggga 300
agcctaatacg agaaaagtta gactgagcga tcatgggtcat ttgtctatac atcaaaccac 360
cgatgttcat gtccatcctt gtgaatatgc cat 393

<210> 31516
<211> 440
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31516

tggttaagcta caacttgggc ctaagcccaa gaaatgtact cagctcagca gagacctcac 60
tagctcatga gcacaaacat atagctgaag tcctatgaag gaacatagat ttgttcgcct 120
ggcagccatc taacatgccg agaatccacc ccagcattgt atgccaaaaa ttggttgtct 180
gcccttaggc caaacaatc tcacaaaaga aaaggaagat gggagaagaa ctacgtaaaa 240
caattagggg agagatcgac aagctactca attcccaatt catcagagaa gtcaaatact 300
cgacttggtta ggctaacatt gtcattgtga ggaaggctaa tggaaaatgg cacatgtgca 360
caaaatacac caacctgaac aaagcgtatc ccanaggcgt gtatccctta cctagcatcg 420
acaagctagt ggacgatgcg 440

<210> 31517
<211> 397
<212> DNA
<213> Glycine max
<400> 31517

agtaacaata aacctgtcat ggcaattcca ttcaagacaa aagatgtcaa cgaggaaata 60
acctctaaag acattaagag cctaattggaa caggcaaatt ataccaacaa atacttacia 120
gctttaggag aaaccataaa aactaaggta gttcctaaac aaaaatcaat tgaggaaact 180
tcgccaagaa tccccattga aaaaccttta ttcaaacctt tcaaagttag tgagaaggct 240
aaaagaaaaa ttagggaact tagaaaaact aaatccttaa ttgaaggcgt aggtgacaac 300

catagtgaat tactaaacaa gattggtagt ttacttaaag tcattccaga tccccccaa 360
gcctcgaaa atacttccaa aatggtaaca agaagta 397

<210> 31518
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31518

gctttcttctt cctgttgtaa catttgtaga acttccttca gatttttagc taagacctcc 60
tttgatgtcg atcctgctaa aaatgctgcc agatgagact ttgggttcaa aaacacagaa 120
gtctctggat cagctgcttt gaggacttct ggatgggatt ggaaccatag ttttacttgt 180
tctggatccg ctttggatga gtcaaattgt gtccaccatt ttacaaatgc gtgtcttctgt 240
agtgatggat attggtttgt cttttcagtc ttgctgtaac gatattgcca tgagaatatc 300
catgacagtg caaagcttga aaagtattta agatctgctg gaattcgtga ttctgcgaa 360
ttgtattgtt tcttanattg ngaaaatcct tggtggaccg tttctgggaa tatctctggg 420
attggccana gaatcccacc attg 444

<210> 31519
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31519

agctttgatc caatacaaac gacaataact nttttctcgg atgtctgatt gattcccgtg 60
acatatcgag acgctngaaa ttgaaagctg aagctctgag ccaatacaaa cgaccataac 120
tttgactcgc gatgtctgat tgagtccegt aacatatcga gacactcgaa attgaatgtt 180
gaagctgtga gccaatcaaa acgataataa cttttttcac ggatgtctga ttgagtcceg 240
taacatatcg agacgctcaa aattgaatgt tgaacctctg agccaattca aacgacaata 300
actttttact ctgatgtctg aatgagtcce gtaacatatc gagacgctcg aaattgaatg 360
ttgaacctct gagccaatca aacgacaata actntttact cggatgtcat gattgatgtc 420
cgaacatatc 430

<210> 31520
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31520

cttaacattc aatttcgagc gtctcgatat attacgggac acaatttaac atccgagana 60
 aaagttattg tcgtttgaat atgctcagag gttcaacatt caatttcgag cgtcttgata 120
 tattacggga ctcaatcaga catccgagta aatagttatt gtcgtttgaa atggctcaga 180
 gcttcaacaa tcaatttcga gcgtctggat atattacggg actcaatcag acatccgagt 240
 aaaaagttat tgcgtttga attggctcag agattcaaca ttcaatttcg agcgtatcca 300
 tatattacgg gactcaatca gacatccgag taaaaagtta ttgctgtttg aactagttca 360
 gagcttcaac attcaatttc gagcgtctcg atatattacg ggactcaatc agacatccga 420
 gtaaaa 426

<210> 31521
 <211> 169
 <212> DNA
 <213> Glycine max

<400> 31521

aggtgaaact tectgctttt attgttgacc acagagtggg acctggagat atgtcgcggg 60
 ggtcaggaga ccttggggac gtcaagtggg gtgctattgc ccaaaccacaa acttgaccaa 120
 tcccgaacca acccgggcat agtcggtcag tgagaacatg tgacgtacc 169

<210> 31522
 <211> 320
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31522

tatgcgccat atttctacg aacgttcact tgcacaagac atcctataac taagaaaaat 60
 gcacccatat acaatcaagg tagcttcatt acctagatta ttacatgta cttccaaggt 120
 gtatttgga tttacatcac acacngcctc ttggctaaat ttacatacat gcatacctca 180

agcatttcgg ggtaccaaaa attgcacatg cgctcatctt ggtatttcta atacctatac 240
 atatacaaac ttcatgatga atcttgacta cctacgcaat aagggtgctac atttcatgcn 300
 tctttttttt tttttttttt 320

<210> 31523
 <211> 233
 <212> DNA
 <213> Glycine max

<400> 31523

agctttttat tcaataacga gcgtcgagat atatcacatg actcaatcct acatccgact 60
 gaaatgctac atggcgatca aatttgcttg gctctccaac attatacttc gagcgtctcg 120
 atatattact ggactatatc atacatccga ctcaatagta gctgtcgatg acatagctta 180
 gacattcaac atccatcttc tagtgactcg ttatattact gggctcagat aga 233

<210> 31524
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 31524

atcaacaaga gtcttcacaa ataaccatca tgaacagaa aactatcaga actaccgctc 60
 atatctccca caacccata cccacgaaaa tcaaaggaga aagaagccca cccaaacctg 120
 aaatttcgaa gtccactcg tagccacgca cttcacgact ccaaaaacgc tctcctttcg 180
 cgatttgggg cataaatgat ggccagaggt tgaagctttg cttggagctt caatggagaa 240
 tgagggagaa agaaacgcaa cgtgagggag atggagagag aatgcttctg caatctttct 300
 gctgaatgaa cagagagaga gtcgcttttt ggttcttaaa cggctttctc ctcttttctt 360
 attattttat tcaagctatg ccacatgct 389

<210> 31525
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31525

tatattgact acttagaata atactttcta taccatttat tcttttttta taccgctaata 60

ttattaaacc ccttctcatg taggttttga ctctctttat ttgttattat attgttgatt 120
gatatgaaac atttattgat tttatcaatg attaactctg gtagaataat ttgttagaca 180
tctttgatga aatcctctct ctaccatatt ctttacattt agaaagttca agattgtatt 240
taagaaaatc gagctaaata ctactcaaat taatgatttg tcaagatgat tgttataaat 300
ctatcantaa ataacttaat agctgaaaat agctaggcac tggcaagatc tccgtgttct 360
tgtattacct ttattttgc 379

<210> 31526
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31526

agettatctg tcacttttag cacttcatga cttagcctct tttcacctg aaattgcaca 60
tatttcataa tttaatccaa tggacatatt ctagagacaa ctttaacaat aaaacaagat 120
ttatttacac aatcactaca aaataaccat aaattggggg aactatacaa gttttggaaa 180
atgggtttcta tataaaagt attcgtataa gacgactaac aaactcccc aaatttatag 240
ttttgcttgt cctccagcaa agaaagaaca gttcacttgt cctcaagtga caaactatag 300
tgatcacttc aaatggtgtt tgcttcacaa ataaattcaa ccatatgaac tcgatatcat 360
ggactgcttc aatcaattga ttntcacaaa catgcagct 399

<210> 31527
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31527

tgcttgtggn gcttctatgg aggctggatc tttgagcttc aatgtggtcc tttaatggtg 60
attttccacc atggagatgc agtgtaagac aaatgagaag aagtgaagagg aggcgccatc 120
cactatggaa taagccatgg aagaaagagt ttcaccacca agatgagcct tggataagat 180
gcttggagat gatgcttcaa tggaggaaaa gatagatgga gagaaagaga gaggtgggga 240
gcacgaaatt gaacgaagaa aaaagggaga gaagttgaac tttgagttgt gtctcacaag 300

actctcattc atcaaagtta caacaagtgg tacacatgct tctatttata gactatgtag 360
cttccttgag aagcttcttt gagaaaactt ncttgagaag ct 402

<210> 31528
<211> 284
<212> DNA
<213> Glycine max

<400> 31528

agcatattga gacgcttgaa attgaaagct gaaactctga gacaccacga cacaccatta 60
cttcttactc agatgtacga ttgagtaccg gaacatatct agacactcga aattgaatgg 120
tgaaactgtg aaccattca aacgataata actattttca ccgatggctg attgaggacc 180
ggaacatata gagacgctca aaaatgaatg gtgaacctct gagcacaatc agacgaccat 240
aactctttac tcggatgtct gattgagtcc cgtaacatat cgag 284

<210> 31529
<211> 222
<212> DNA
<213> Glycine max

<400> 31529

tagcttttga tatcattgac acagaattct tgggctttct tccaaaaaga acgacatgat 60
ttaaatgata tcaggatctc caagatatcc ggctcaactg attgtcataa cacggcacac 120
aattgatagt caagcttctc ccattcaggt cttttatcat ctgagacaga attagatgat 180
atctccaacc agtcatggtg tccttgacca atgaaccaca ac 222

<210> 31530
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31530

tctaaatata cgaatcatga tattatngga cggccttatg cataatgtgt ctagttatgc 60
atatntgccca agtgtgtggt gaattattat tattaaccat tatattggta taaaattggt 120
tctactaana aatggtgaca attcttcatt ggaaacctta aatgcatata agatgagtat 180

ttttctttta catatgactt attctataca tangtgcat catcatttag atgcctaaaa 240
 tatgtattct ttgattgcac taacaattca gatactagcg gtgttattac atgatcactg 300
 attttgctaa cacataagcg ttacgagtgt ccataatata ggatcaaaca aacttcactt 360
 ttgagaagaa agcaaatttt ttataggact aaatcaaatt tgtgatttat 410

<210> 31531
 <211> 314
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31531

agcttttgtc cttngacct actcacctcg atggcattaa cgcggggggg tccatgattg 60
 gcaagcgggt ttgtttttat gttggggccg tctcttgaa aagtcaacca ctgggcctct 120
 atcaagcttt ggaccttact tttcaaggcc aagcactgtt cgatcgagtg gcccggggtt 180
 ccccatggt atgcgcaggt cgcgctaggg ttataccact ttgggaacgg ngactggaag 240
 atctttcccg ggaccacat ggccaattgg ttggcaatga gagatggcaa gagttcccca 300
 tatgtcattg ggggt 314

<210> 31532
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31532

ntggatctaa ttgatattct gcacacatgc atacactaaa catattatnt ggcctacttg 60
 tagataaata aagtagagat ccaatcatat ctctgtattg ctgtggatca acaggttgac 120
 cggattcatc tttgtctaga tagcaacttc tattcatagg agtagccaag tgttttgagt 180
 tttccattcc aaacctctta ataagttctt ttcaatactt tgcattgattg acaaagatcc 240
 catcatttgt ttgtttgatt tgtagtccaa gacagtaatt taattcacc atcaaggaca 300
 tctcacactc actttgcata tcaatagaca actccttgca caaagatgca ttagtagatc 360
 caaaaattat atcatcaaca taaatntgta ccaacaagat atcattatct ctcttttata 420
 tgaataaggt ggcattctact t 441

<210> 31533
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31533

gcttgcaagt atggctctct tttggacctc tattcttatt gacttcttga actcaattct 60
 ggattaagac atgtttcata gttttatatt ccatggctta aagtcttaaa cgaataatat 120
 attgtgatta aaatgtggct cccagcggt gggcctgaca aagtaaagt aaacctagtt 180
 tcatatgtta ttccgtangg tagtgcttcc tgcacnttct ttttttctt ttggaatgta 240
 aaattacatt ctggaataca ctctcttttag cttcctgaat aactatttcg gaaagttaaa 300
 aaacattctt ggaaagaatg cagtaagcaa catgggagtn gtagaataac ctattctaaa 360
 cacttgaaca gaatgtgtat gcacatccct agttcaccta catgatatgt tate 414

<210> 31534
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31534

tgaacctcac agacceatt ccaattatct tttacaggac ttgttgtttc catggaggac 60
 tgaaccacca acttgtttgt caagatcctc aaaccaagac ttgtttggag tcatatgaaa 120
 tgaacaccca gagtccaaga tctatttgtc tcagtgttct tatgagacac cattaaagcc 180
 tcagctgaat cataaccatc ttcaactaga gtagcatttc caggttcttt agatcgatct 240
 tgcttggttc ctttctgtct attangacag aatcttcgag tatggccttc tcttttacag 300
 tggtaacatc taatgttttag tacattagat ccaaatcgag tttgtgactt ggatcttttc 360
 ccttctgtct tatcatcctt cttgtattng cttccacgaa ctangagtcc ttccccatgt 420
 agagaaggcc tttgtcattt ctttcattta actc 454

<210> 31535
 <211> 191
 <212> DNA
 <213> Glycine max

<400> 31535

tcatgctata acagtgaaga aattatccat ggattatgta aacgggggaa acacatactt 60
tgaatttact ttacgctggc gtgtggaagc actcactcct gtcataattct atgttgacat 120
accatttatc atcttactct tattgaaaaa ttagtaccga cgattctatt gtcatactc 180
tgagccagcc t 191

<210> 31536

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31536

agcttcacaa tatgaanatc gatcatttga tgaagccttc acattgcatt tcttcaacac 60
cttttccata tcttaattgt tggggtgtcc aagctttcta tgccaattct ccttgactga 120
catgtaggta catgggtcta tattgacttg agagttgaca cttgaaagtt ggtataatcc 180
atctctaaga tcccccttta gtagtgcctt ccctgtcagt ttgtccttca catagcagta 240
gtttgcatca aattcaacaa gagcattatt gtctgcagtt aatttagata cactcaacaa 300
gttcttgggtt atttctggga catacaagac attacgcaag ttgaggttat tcaattgagt 360
cgagcctgat gccaatatgc tcaatctttt accattgccca actaacaaag aattcttacc 420
attgctttca ctgagatctt ggagttctca ttntgatgag tcacatga 468

<210> 31537

<211> 404

<212> DNA

<213> Glycine max

<400> 31537

agcttgtatg attatggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgccac 120
ctccaactga gctcacgtac tctcacgtag cccatatact cgtttctctc aacaccgggt 180
ccccatcaat cctctcaagc ttccacaaca tccaagcaaa acaacattca cacagcacat 240
gctatcacia ccaagcaaaa cagagcatag gcagaaaact ctgccaaaac accaaccaat 300
aatcacagct tttcccactc aaagacccca gtaacaattc cttcgatcca attcgttaac 360

cgttggatcg actccaaaat ttactggaag tctctagtag ataa

404

<210> 31538
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31538

tggttaagaaa agagcaaacac acacagtcac ctaataagta tcaagtattt aaaaaaaaaa 60
ctgtaagtat aaaatagaag tgtgtgtgct gctatttaag aaaaagacaa gctaagtgcg 120
gaaaggcaag taatagagtt ggaataaaaa taaaaagggt gatctatgta tgaatgctct 180
cttagaacct aagcttttgc atcctagaaa aaccatgaat tgattgcagc ccagcctcgt 240
tacaagccta gtaaagtcct tcagattcaa tttgtgtgtt cttgactata tggcatgaga 300
tgaattgcaa agattaagac ttgtgttagt tgttgattgt tgaataagcc taaacacttg 360
tgtttgagtg aaacagtagc tgtgtgacct tggttaatga tccttccttg atatctnttg 420
ctcttactag cttatttcag ttgtgttcct taataatcat gt 462

<210> 31539
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31539

agcttatgaa gcatcaatag accttaagaa aatagtcac ttaggacaat aaacaagaaa 60
attaatgaga gttctcctag ggtgatcagt ccacccatca gccatcatag tacatctagt 120
ttccttccaa acttcttggt aaattttaac aagcttcctc cttcatcaa accatttata 180
taacaaagga ccacaaattc tataaaaaaa aaatggagat ttatacaccg gactcatgct 240
actaataaca tcaatcatag gttgataata tgtcgagtta attgcattaa atggcactat 300
agcatctatc atccattntg caatggcttt gtcacacttt tctacaattt tcttattgtg 360
caagacactc ttcaagct 378

<210> 31540
<211> 445

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31540

ctataaatag ggggagaagt gaagtagaaa atgggttcagc cccttaggca cttctctctc 60
tttcgaattt gcttaggaaa attgtttccg tgaagaaaat ccaagccgag gcgcttccgt 120
aacgtttccg tgagtgattt cgtgaagggt ttcgaccgtt cttcgacgtt cttcattcgt 180
tcttcacgtt tcttcagtct tcaacgggta agtacctcaa accaagcttt tcgattcatt 240
ctatgtaccc gtgggtgggtcc acattttgtt tcatgtattt ttattctcgt ttcatttatt 300
ttttataccc ccttttgacg tgcttaagcc attntattta agtcatttct cgcttaacct 360
anaaataaaa taaatttcca ccgatcgttt gaattgtatt atccattaac tttgggtgaa 420
atgaatntcg accgatcgggt catgc 445

<210> 31541
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31541

gatgacntgg tcttcaccga cgaaaggatc aaagtgagtc tattaagagg caaatttgat 60
catcatactt tgataaatgc caaaaaaaaa ctagggcaaa tgaagagggt gagaatgagg 120
gacaagccca tgctgtgact gccattccta tacagctaag tttcccacca acccaacaat 180
gtcattactc agccaataac aaaccttctc cttaccacc gccagttat ccacaaaggc 240
catccctaaa atcaaccaca aagcctacct actgcattc caatgacaaa caccaccttt 300
agcgtaaacc ataacaccaa ccaagaaatg aattttgcag cgagaaagcc ttagaattca 360
ccccaattcc agtgtcctat gctgacttgc tcccatatct acttgataat tcaatggtag 420
ccataacccc aaccaagggt catcaacctc catttctccg agaatac 467

<210> 31542
<211> 350
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 31542

gcttgtgaat ttatgatcga gtcgttgagg agcatgttag ttagagaggc cgtgatgata 60
 agcattatgt gaatgatttt gtggacattg tgcttgccat tcaggccaca gatntccaga 120
 atgatcaaac attctggaag aagtttgatc atggcaagat ctatcttcat attgtttcta 180
 cctatgtatg catattgatg atctcttagc ttattgttta tcaagtgtta gaaatatatt 240
 ctctcgtact cattgtttta cactattctt tattagttac aattcggata gattctaata 300
 ctagttaagg gtgaggacca tcacatcata agtgggcaca cttatcttct 350

<210> 31543

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31543

acgtgaccta tgaaactcag cttatacctc ctccgatgtc aatgatgttt acaccacctc 60
 caattatgct ttcagcacca attcaaatga tcttcttaga tgtactatct cataggataa 120
 accaaccaaa ttacaagagc ttcatatcca cactatgggt gccctgctgc caacattcgg 180
 agaagtaaaa tatgagatat acttgtcttt tggttatagt agattctcac taattggtat 240
 aatttgata gaattgtaat gattgatgca ctgttacaat gtttattctt atacattggt 300
 agaatgttta ctttggaata tatntattgc gacaacatta ngtaataacc aaaataagtc 360
 tcattctttg gtaggattaa cttaatgatt ntacattctt gttcgagtct cgtattctga 420
 gtaaagtact gtcacatca 439

<210> 31544

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31544

agcttggtta cctccttctt cactacatca agaatcaccc ggttgagtct tctctgtggc 60
 tgtcttactg gtttaacccc atcctctaaa ttattcaat gcatacatgt ggatgggcta 120
 atacctggaa tgtccgccag ggtctagcct atagcctttt tatgcttctt gagaatagat 180

aacagtttct cctcttgctc atccgcaagg gaggcagata taattattgg aaaacttttg 240
 ctatcatcca agtaagcata atttaaant gatggtagag gcttcaattc tgggtgagg 300
 ggctggataa tggtagaaag agatgggttc tcagcctgta ccttataaag aaagtcagag 360
 gtatgtgtac ttntganac anntggtagt ctatctaac 399

<210> 31545
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31545

tggctcaaaa ttcaaaaac tccatattgc atataacatt tagtgattat agcataaaga 60
 caatgattgt gataaaaaga accataatga gttatatagg gtgtttactt ttataccatt 120
 aagctttgaa aggttccctt gcatcattat ggaggccaat aaaaaattaa ataaattatt 180
 taaccttcca tgtgaagata tcaaaccctc aaactaatcc annatttctc tcatttttct 240
 tttgtaaaat ttgacatang aagggaatgc caaaccaagt ccctaatttc ttcaattatg 300
 ggaaaaaaga aagcatatct aggtggatag aacaaaanat caatgtatat gaatcaatta 360
 atcacagaac aagaaataaa aataaaaaaa tatcanaaca aatat 405

<210> 31546
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31546

tgtagtcaaa ccacgattaa taataataaa tcacagaaaa gaataaggat ggataaagga 60
 agaaaaggag aaaatgacta tagaagaagg aggggttccc ctattagaga tggtcaggct 120
 ttgagtgtat tcaataaaga gctatgagtc tcaactgcatt tttctccttt gcttcctatt 180
 ctttttatag gccaaaaata tcttaaaatt tatgcgacct cgcgtaagt gcacccttct 240
 gagcttagta agtatgacgg tgtgatcatg cactgagcac gacagcgtct gggcttattg 300
 agtatggcgg caatagctcg cttagcgcgg gattcgtgct aaacacgcct ttgggctcct 360
 atcgggatct tntatgtaat a 381

<210> 31547
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31547

tgnggaagaa tgtggatacc tctggaatat tctagagatg cgtgatatct ttcttgtacc 60
 ttatggacag atatggaaga gtgtacaaac tcctagaatg tgtggagcat tctacagaat 120
 taatcttcac cttatgatac aagaaatctc caccatttat tggggagatg gagtagtata 180
 aataagggtta agaaccttca ttcctatcca tccctgataa gagtgaatcc acttcttata 240
 gtgagaaaaa gcctctctga gagagaagat atatagcttg ggaagtcttt attctcaagc 300
 ttgagtgagc caccgtagag tgagtccatc catgtagaga gcctctctga gagagaagat 360
 aaataacttg agatgtttct atcctcaagc ttgagtaagc ctctctgaga gagaagatat 420
 atagctcgag aagtctctat cctcaa 446

<210> 31548
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 31548

ttcacttttc tgcgtggaaa atataattta gttttaaaat ccagaaacgc gcataagata 60
 taatctggat tatgttatgt gaataccgag ttgtgaatta tgaataatcc gggttttttt 120
 ttttaggaaa agaatttata atatgaattc tgtctgatat taattgtgat ataaatcatt 180
 aaatccctta taaccaaggt agccatacca tattaaggaa ttggcaaata accgagtgcc 240
 acaaataatt ctgattacat gtcaatttta tgtgatatca ttaatcatat t 291

<210> 31549
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 31549

tccacttgta tattattgca aacataataa aagctttctg tttttccctc ccatggatgt 60
 agccttactc aaggtgaacc acgtaaatct gtttggtgtg tctttctctc atctctttct 120

<210> 31552
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31552

agcttttctta tctgnnttaa gtccaagccc ataaataaaa taaaatctag ataagatcta 60
 cataaaataa tatctagatg tgataaaatc tagatatgat aagataaaat ctagatgaaa 120
 tacaatttag ataagataag atttggtaga ataaaattgt ctgctctctt caagtccaag 180
 cccaattccg gattcaagcc caattactta caattctcct gacattaaat taaacacaca 240
 caattaatcc agtaggcccc aatgataaaa ctacataatt aatttgacaa ttaatgctaa 300
 tcaataatta caatggtgac aaaaaggggtt aagacatatg agaaaatgat gacacatcag 360
 tgaggcacat gaccatccag aatatgcaat ttcagc 396

<210> 31553
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31553

tcagaccaag gcaattcata atctaggtac ctaaaaccca tcaatttagt gggatttcaa 60
 gggttgagaa gtgaaaatga gaatggngta attttggagt aaactctcat ctcaaacaag 120
 tctataacat taatntaaac ttactcaaac tggttttacg gcgaaaactc caccgattca 180
 aaatttgacc cttcaacacc caatttacc tagaaatggc tcttgctttc acatttgcca 240
 ctcatnttcc tcatttgctc tgcccaagct ntccataaag tcctaattga cattntanac 300
 taggatcaac tcactttaga ctccaattta cactaacccc aaatntagct tctctaaccc 360
 tcaaaatctc acactgttct acctacaaca ttgtcattct cacatntagc cctaaattaa 420
 ctgtcccat catctctacc 440

<210> 31554
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31554

agcttattta tcattgataa aatatcaaca aaatctnta ttataatata atacaactta 60
tcaaaacaag agttcgtttt ttacatgta atagaattta aatgaaaaaa atgaaagcaa 120
ttacaaaaag tagtaaagta caacaaaagt gaaatttctt ctttaaaaaa agaacctaaa 180
ttcatcgtgt cacaactctt aagttaaggt gttaagaaat aaatttgtcc aatggcttta 240
aacttcttaa atttcctctt gaaagagtag aaataaaatg ttcaatcatt ttaagttaaa 300
tcanatttaa aacaatatta catgaattca aaatagtttg accaaattga ttaagctgaa 360
naaactgatt acctttccca aatanataac aatggttatg aaaatgata 409

<210> 31555
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31555

tgaaattatc atgcaacgct acgaacgcca acaacttttg ttcncacca ttgcttactt 60
tgatggccgc tcttaaggtt cttaccatgg gaagaaattc accctctctc ataaggcctc 120
cttcaactgc aataacctat ttgctcatga caacaatcaa ggtgccaaat gctccatgcc 180
tgtgtgccaa tattgtgtta cacggtgtca catgatatgt taggaaaacc actcatggct 240
aagttcaaga catgattggc caagcaatga agtcctttgc cgaatgccaa cggtgaagaga 300
atgagcaatt gtgcctctct ttgcaaaatg ccataaacac aattctccaa ccttggtgtc 360
gtacttgtag agaacatcca acangtcaa ataacaatgc ttggagttga tgctgcacct 420
gcccctacac ttgcacttgt actttaacca ctcttcatac ctac 464

<210> 31556
<211> 329
<212> DNA
<213> Glycine max

<400> 31556

tcgactctgc gtgcatgcaa gcttttccac tattgtgcta tcaatagggg aagacgtgag 60
gaagagacgg ttcaccccat gatgcacttc tctctctatc caatgtgcta cggaccatta 120

tgtccatgag gaaactccaa gccgacgcg ttacgcaacg ttgacgtgag taattacgtg 180
aagattctcg agcggttcttc aaagattgat cgctcgctct tcgttcaata cgatgggtcaa 240
ttcattatat gcatccgagg tgctccacat ggaggggcat gcatgatcat cctctttatc 300
agatactctt tataacctct attgacatg 329

<210> 31557
<211> 450
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31557

acacatacac acacaacaca catatattata tgctctaata tgcttttaca cataactcat 60
aatcatgtat ttacttcttc tatcttatta tgattatggt ttaccttagt caaaatttaa 120
agagggagat tgtaggtct aaatgggtcca cagaccactg gatgacccat tcccaccttg 180
gattttgatg attataaagg tataaattat tggtagacta atgatttatt gttaagtga 240
catgacctac tacataaatg agcacacttg gtattaaatt gtattctaca gctctagtga 300
gtatgcatcc aacgggctat taaagtacct gcatccactt attgtgaaac tagtggtcac 360
acactgagtt gtttttattc gtgttcattg gacttanatc acttatacac tctattttat 420
atctttataa gtgatgtcca atgaagtaca 450

<210> 31558
<211> 410
<212> DNA
<213> Glycine max
<400> 31558

agcttggtgt ttgaagtcta atccatcaca aaacacaaaa tacacatgaa gaacaaatta 60
aatgcataca gtcataaat catagaaatc aattctaaga acataaaaaa tggctaaatt 120
accaaacaca aaccatcaat tcatgacaac aagaaaaagt attttaaggt aattacaact 180
cgtctaataa aattaaaaac aattataata aatcaaaatg taaactacac aattaacttg 240
agatctaaga tcaaccctat tactcacaac caaacatcca ttataaatca ttatctaate 300
cctaacgtta ccaatataac caagatgggg aaaaggcgaa aataatcaat atcatatagt 360

aaaagagaat ggaaaggtag ggaacactca tctaacaaac acatagataa

410

<210> 31559
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31559

gtgtctntnt cctttattct tcatgtcatg attgaatgat tcattatgtc tttcctttctc 60
ccttctttnt tgggtccataa caatgattat acaactcgtc attttctctc tatgctttga 120
ttgaatttca tacacaatta ttttattaat ccaaaccata taaattatta cgtgtgtgta 180
atataaaagc atatttagta aaaaatattg tttatatgag gataaaataa taaatgttga 240
tatttaaatt acataagtac ataaagctaa tgaacacatg tcttttaaact ctaatgctag 300
atatacattg catgataatg ccatatatag tgggttagtca tgtcttaact tatatatatg 360
gattggataa acagaataat tggatatgaa tacgaataag agcataagac gaggaggatg 420
aa 422

<210> 31560
<211> 436
<212> DNA
<213> Glycine max

<400> 31560

ggagttgggc cttaacgtgg tattgaaact tagcaatttg gtggtggagc tgcattgtag 60
caacaaggat tagacttctg accacttggg gacaaaggct ctcaagccaa gttaagaacc 120
aactcttctt taaattcaag ctattagggtg tagttgaatg gttttatatt tttaacaaaa 180
gttgactttt atttgcagtt gaatggcttc catgtaagct tgtacccttg aatattaaga 240
gagattatct aataggcatg atttttttaa tattattcag ttattcaata atgactgtaa 300
ttttcatatg cttgattctt ttcttaatta ttgtaattat ttatgtttta atattttctt 360
tagatgtcaa aggagttgtg acaactatat cttccattag agattccatt acagagtatt 420
tcagggtgga aaatca 436

<210> 31561
<211> 375

<212> DNA
<213> Glycine max

<400> 31561

atacaacgta gtgactggga ataccctggc gacacccaac ttaatcgctt tgcatacat 60
accactctcg caactggcga atagctaaga tgcccgacc gatcgccctt acaaacagtt 120
gcgagctctg aatggcgaat ggcgctgat gccgtatttt ctcttacgc atctgtgcgg 180
tatttcacac cgcatatggt gactctcaa gacaatctga tctgatgccg catatttaag 240
ccagccccga taccgcca caccgctga cggaaccca ttgaagccgt attaaatata 300
aatcgacaat atgtatgtat taggatgttc tatcgataac cccgtatttc gtagccctgc 360
aatgatacta gagct 375

<210> 31562
<211> 325
<212> DNA
<213> Glycine max

<400> 31562

aagataggaa cgggtatgac cacaccgctc cgtgaagaat taatggccct gccaaaaaac 60
taccaagaca tctttgcctt gtcataccaa gatatgcccg gtttgagttc tgacatcgta 120
caacacagat tacctctaaa tcccgagtgt tccccggtaa aacaaaagct gaggaggatg 180
aagcccgaga cggtcttcac aataaataaa agagggttaag aaacaatttg acgctggctt 240
tctggctggt gctcgttact cggaatgggt tgccaacatt gtaccagtc ccaagaagga 300
tggaaggta tgaatgtgcg tggat 325

<210> 31563
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31563

nttggtcctt ttataaaaag agaagttctg aaactcatca cggtgtctaa aaaagccttg 60
aggtggatcc aagtgtctg atcattcatt agcatattca tgagttgcc caaccaaaca 120
tagtccgcca cgtcccgctt ccatccgcac ccgttaagga actcgttccc ttacaaaag 180

<223> unsure at all n locations
<400> 31566

tggtaatcaa ttaanacaaa gagttttiatg tgctaaagaa gtttctaact ttagaaacaa 60
tcttatttct tctacatgat gatgcatggt gtacatatga aaatatagag actaagattc 120
aacaatcaat acaacaatca atacaaatgt cactcaaaga gttggtcatg tgaaagacaa 180
aactttctca agctttctca tgttgctcct cctatctctt acaccttatt cttctatctt 240
atctttgaca cttctttttt gtacattata ataactgaaa gtccaatgac cttgattata 300
tataacttttt ttaatgaaat agtgaaatac ggtgagacac tatectttta tttctgaggt 360
aactttctca cact 374

<210> 31567
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31567

nggatattaa ttgtatgata tatactattg aacgctcgct acaacatata attctactct 60
ttcagtgaat ggagcagcat tcaactaggc ttgtctgtta tccatttaca aactgtagtt 120
agaacttaat tcataatgat aagggtgtac tngtctatat tgcaaaacta atcttctgaa 180
gcggggtttgg ttcattgcgt cgaaatatga gaaataagac aggatggaaa gatcatcgat 240
ctaggagctt tcttcatatt atgtgtccaa tggatgcata ctgaattgta ttagcctctt 300
gaatgatgat atattgtcat ttactatacg cagtgcgat gtttctggag tttcaacaga 360
atctatgcag ctctcatttg atgcccgatg gaatagtgta cctacaatac t 411

<210> 31568
<211> 449
<212> DNA
<213> Glycine max

<400> 31568

acgagtgaca cgttgaaacg tgaacgttga aacggagcct aaacccactg tgacctggtg 60
ccctctttta tggccccggt ttttgaaaac caaatcctct cacggatgac caacttaagc 120
ctggacgagt ccttgtgatt tcatgtgtgt gcatgctctt tattgcttat gagaaggaaa 180

atacagttga attgggtgag gcatgactgt gacttgatct cacccatagc aattggtggt 240
 ggagtgcag acatgtccat gtgatacccc ctacccttc attttactac tacggactaa 300
 agacattcat attcatcaaa gttctttcaa ccactcctcg caggataaag gctcacactt 360
 atttctttac atactctact ctgccaatca atataatcat ttcaatcgac acggcgctag 420
 ctctaccat aacaagaacg atccacggc 449

<210> 31569
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 31569

agcttttgtt tattgtgatg aggtacaagc cctaaaggca gagcttgaaa gagcccgagt 60
 agtcgaagag aagttcaagt ccatagccat caaagtttga aaagagtatg atgaactaag 120
 ggacgtcaat atggccaccg gtgaagcctt ggaacgagaa accaagaagg cccgaaggaa 180
 gaacacgtgc aagcaaagtt ttgaggtgct ctataaggca gccatagtaa gctcaagctc 240
 cgaagagggtg aaaggaatca tcacgggtca aaggcatgat cttgaaggac gag 293

<210> 31570
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31570

taatctttta caaaggacca tgacttacgc ctaggaatct atttnttggt tntgaatgta 60
 taaaggcttg aatattacga catgtttgag aggtttttga ttagaattta aattggctgc 120
 ctcatgatga ataccttgca cctaggtagc atggaaaata cttttcaatg gtatgtatat 180
 atgtgaatat atatagcatg gaaatgcctt gcagagtgtg taaatatatg gcataaatat 240
 accttgcaaa gtgtgaatat atagcaaata atgcatttca aaaatctata tatgtaaaaa 300
 atgcgtttca aaatatgtat gtttgtaagt aggtatgcat tatttccaac taatttctaa 360
 tgccatctac tatttgcagg ggttgcgccc acaagacacc tagtggaccc ggagaagtcc 420
 aacatggccc ttggtgtttc agctctagtt acgggcctct atc 463

<210> 31571
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31571

agcttatact cactgagctc ttgattgaca caagccttag ggtgatgcaa tcctactccc 60
 aaagggcatt ggatagaaga ctccaagaag attgagccag agatgcatga gaaggcccta 120
 gggttcttat gagccttagg gtagattttg ggcccatgga ctcagtatga gccacttat 180
 ctttgtatat attagattaa ggtttcatta tttttgggcc ttgtatttag ggctccatag 240
 tgtaaggagg gtaccctagt aatgtaggat ttttcagccc ttgtatttta gggtagatag 300
 actagttatt ggattagggg taattntgta atttctcatg cattaagtgc actatntgat 360
 gtgtgtgt 368

<210> 31572
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31572

tgataaagtc cttagtgatc tattntatgt ttgtgcaatt aaattgatta gatgatgcac 60
 aaatttgaga tttgtaattt caattagttt gaatgataga cacagcggaa acgcttgtgt 120
 gctgagtga acactagcct tgtgaggagt gaagcatggg taatcttctt gaatacttgt 180
 tgtcataccc taatttcgtc tggtgaccat tatttggttg tatgcgacct tcgcttgacc 240
 atctcaaaat gtttatcacc catcgttgtg taatccataa agtctcgcaa cattccggaa 300
 gtcaaaacaa gcattgttgc gcaatccgta aagtttcgca acattccgga agtcaaagag 360
 agcattgttg cataatctgt aaagtcccga aacattcaag agggcaaaaa gagtatcatt 420
 gcgtaatctg tacagttacg tgatatttcg gaaagaaatc gatata 466

<210> 31573
 <211> 406
 <212> DNA
 <213> Glycine max

THE

<210>	31574
<211>	427
<212>	DNA
<213>	Glycine max

<210>	31575
<211>	232
<212>	DNA
<213>	Glycine max

13165

ttctgctacc ttgtcttaag ttgacgagag catgattcat agaaagattt gg 232

<210> 31576
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31576

tgtaatacat tgattgctct atatatctca tggctcttgg attctaagaa aaaccaaatt 60
cctttgaagt catgtcacia tataagcctt gatcgagttc ttgtgattct catgtgtgtg 120
catgctctttt attgcttatg agaaggaaaa taaagttgaa ttgtgtgatg catgattgtg 180
agttgatatc acctaaagta attggtggtt gaggacaga catgtacaat gtgataccct 240
ctacccctca catatatact aataaggaat aanaaaattt aaatattaat tacaagtatg 300
tttaagacaa gtctttcana gggaaanaag gctcacattc attntctttt acatcatatt 360
caaantgtgc caaataaata ataaagtatt ctggaatcaa acaaggtcgt ctaagcttca 420
tacaattaat atagaatctg gatcctaatt 449

<210> 31577
<211> 313
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31577

ttctttttct tctttctctg ntcgctcatg ttcacatga actttaagag atatgatcaa 60
acattngatt tttagattct aatgtatgat agataatctg ttagaaaaga aatatcactt 120
tcttacatag atcttactac ttcaagacat taatatctaa ttgttaactt tggattcatt 180
caaaaagata tacactatta caaaagttag atacattaac tgaaaaaaat tgtgtcagat 240
tatcccttta cataaaaatt aaattgctaa tatagatatt gatacatctg gtaataatac 300
gagacattat act 313

<210> 31578
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31578

tacgatcatt ccaagtggat cctatataag attgaacaat atattttaga naaattacgg 60
ataacaatct tctttttgtt taattgaaga gaaatttaaa agagagaaat gatcaattga 120
ctnttagaaa taacaattta aaacattatg ttctttcatt ttttttttca atttaaattt 180
cattctcaac aatggatttc aataatttga aaccacgtga atcagtttac cctccaaaaa 240
gcacgtaaat catgtgtaca tactcataaa ttcattcttt caatgtgcga agattggaga 300
gaccattact tttcattgga agtaattttg ttggacgagg acatactaac aaatagacgt 360
ggatcgtaaa attcacattc ggttgcgcct ccccaact 398

<210> 31579
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31579

agcttttgat atttataggc tttcttcttc aagtgtttgt tgtctctaaa tgaatagatt 60
tcttcacttg agttcacgta tgaagatatg gtcattggga cattaaatgc aagtcctttt 120
catgttgaaa aaccactctc tttagcttcc ttgaagaaca tttaaggaga acaccacttg 180
cttttcatca aagcaagtct atcatagcan gagaggtctt tcgatattgc ttagaatttc 240
aaagtgttga atttcattta tgtttcttag gattaaaaan atcctaaggt aatgtcttat 300
aagatagttc ttggcaaagc aatctcaaac acataatatt aaatgaagtc taaatgattt 360
cttaaagat gtatcagata ccataacata tat 393

<210> 31580
<211> 433
<212> DNA
<213> Glycine max

<400> 31580

tttactttga tctctttgtg cgtttgtgca catgtttctt tatcaccgt gtgagtgtt 60
gtgattcttt tcacacctta ggtccctctt gtatactgag gaatgctaac aacatattgt 120
tgtaatcact ctgtaatatt gacaaaaatt attaaaaatc acacaatctt gtgggtccta 180

<210> 31583
 <211> 328
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31583

tagcttttat tttcaattta gagagtctcg atatgttacg agactcaatc ggacatctaa 60
 gtataaagtt attgtcgttt gaattctata tgagcttccg ttttcaattt ggagcgtctc 120
 gatataattac aggactcaat cgtacatcta agtataaagt tattgtcgtt tgaattttct 180
 cagagcttct gttctcaatt tcgagcgtct ccatatatta cgggactcaa tcggacatcc 240
 gagtaaaaag ttattgtctt ttgaatttga tatgagcttt ccttttgaat ntggagcctc 300
 tcgatatatt acaggactca attagaca 328

<210> 31584
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31584

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 ctcaaatatg tggngcaatt ntggtttggt ttcttgcttg attgggttgg attgggggtt 120
 tgtatgggat ggccctatgc ctataattgc atttgaaaca atgggacatg ccacattgtc 180
 cccgttctct tgctattgat acctaaacgc gcgcccacca agtggttcggt gaaatgcctc 240
 aatggcatta gcgcgtgact nttgtaagga aacaacccat ggnngcattt ggtttgcaca 300
 tattntctat tttttgggac atgcattcat tcccgaagag gctagagtaa ttgccccaca 360
 tatatcctan gcttangaac cannagtntt atgcanaaga acacaagagg aagtgcattg 420
 tgggtaaagt tactc 435

<210> 31585
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31585

gcacatgtgc acattccggt atttctaata tttagcgata taaaaacttt gtgatgaatc 240
 ttggctatct acacaataag gtgatacatt tcatgcttta ttcaaagtgt tttgctacct 300
 aaagccgcat gcgaattcaa gtata 325

<210> 31588
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31588

gcttagcttc taaggaagtt ttctcaaaga agctttctcaa ggaatttttc tcaagagagc 60
 ttctcaagga agctacctag tctataaata gaagcatgtg taacacttgt tgtaactttg 120
 atgaatgaga gtcttgtgag acacaactca nagttcaact tctctccctc ttttatctct 180
 tcaatttcgt gctccccctc tctctctttc ttttccctca ttaaagcatc ctcttcaagc 240
 ttcttatcca aggcaattct tagtggtgaa gctccttctt cctcggttta ttccctagtg 300
 gatggtgcct cccctctcct cttctccttt tcttccggt gcactctacat ggtgtaaaat 360
 caccattgaa ggacctcatt gaagctcaaa gatccagcct ctatagaagc tccacaagaa 420
 agcttccatc atttcggccc acactcttta aagatgctca ct 462

<210> 31589
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 31589

tcgatcacct aaggccaagc tgcattggtg ttctgggcttt cgactacaac tgcttagaca 60
 taagggggga gatcgatctc ccaattcaaa ttggacccca catatgctaa attactttcc 120
 aagtgatgta cataaacctc acctatagat gcttactagg ccggccttgg attcatttag 180
 taggagtggg ccttcatgc tacaacaaac gctgaaattt gtggtggagg ggcaattaat 240
 tatagtcttg ggagaagagg acattcttgt gagttttcct tcttctacat cttacaagga 300
 ggccgtggag gaatccttgg agatgttctt tcaagccttg gaggtggtaa gcatgcttat 360
 gtggagtctc cccagtgaca accaccctca tctagggttg cattaatggt agctcaggtg 420
 atgctagggc atcaataaag gctggaatg 449

<210> 31590
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31590

agcttgaaga tgaagctatc ttgcgaagca ttggatgaga ttttgagtga ttatgagggt 60
tctagagggtg gaggagactt cccactacc tggtattctg taatctttca ctttctcttc 120
tctttgttgt aaaagaagtc tccctgctat ggagagctaa atcctcaatt ggttcttcct 180
atggagtact tgatgtaaact acttttatat ctatctgatg atattttatg tggtctctat 240
actatcaata cttcatgtta gtatgttttt gccttgatca cgtagatgca tgctgagtta 300
gggtcactca acattgngaa atggtttgat ccttagaact tgataggacg gngttagttt 360
atcgtattgt cacgagggt c 381

<210> 31591
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31591

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cattggattt ggtacgacca tgccctcctg atttcagct gggaaattgg cgagtggagg 120
aacgccccag catttacgca acgagcataa tgtaaaccctt tacggtttta aaagctctat 180
agttgggcct aggtctttaga gtttttcctt ttgttaaggc tttgtgtctt ttgttttttg 240
aatttataat acaaggatct ttcttcatct gttcctacgt ctctacccat tctcattcat 300
ttgcatgttt acttcttttt ctgaaacgac agatccgatg acgagtcccc cgaagggtact 360
aatacctgng acccgccctat cgacttcgag caagaaatga gtcanacgga agatgaagga 420
aacaaggatg tgggaacttc cccagaatta gaaagaatgg g 461

<210> 31592
<211> 416
<212> DNA
<213> Glycine max

SECRET

<210>	31593
<211>	411
<212>	DNA
<213>	Glycine max

gagatgagga	agtgtagacg	ggtgaaactt	cctgctttta	ttcgttgacc	acagagtggg	60
acttggagat	atgtcgcggg	ggtcaggaga	ccttggggac	gtcaagtggg	gtgctatttc	120
ccttggagat	atgtcgcggg	ggtcaggaga	ccttggggac	gtcaagtggg	gtgctatttc	120
ccaaaaccaa	gcttgaccaa	tcccgaccca	acccgggcat	agtcggtcag	tgagaacctg	180
tgatgtacct	aaacaggcga	gctcctggca	gtcaacagat	aaaaggaaca	aagaccacaa	240
aacaaggagg	cttgtggtgg	ctggctagct	gtgaatcttg	tgtgatatat	gggttatggc	300
ctctggtaat	cgattaccaa	gggtgggtaa	tcgattacaa	ggcttagaaa	tgaagacagg	360
aggctaagat	ggtctctggt	aatcgattac	cacggngtgt	aatcgattac	c	411

<210>	31594
<211>	304
<212>	DNA
<213>	Glycine max

tccttacct cggaagcaaa aaagaagaga aggaaaattt ccaatccaag gaaaaaggag 60
aaagaaaatt tccaatcaaa gaggaagcca aaaaaaggag agaaggaaaa tttccaatca 120

aagaaaaaaa gagaggaaag gaaattccca atcaaagaat gggagagagc aaaaagaana 180
 gaaagaaatt cccaatcaaa gaatgggaga aagaanaaaa gacgaagaag aaagggaga 240
 aagttcccg tcaaagaaaa cagaagacat gtgccgagag ggtcttggac agacaatatc 300
 tgac 304

<210> 31595
 <211> 247
 <212> DNA
 <213> Glycine max

<400> 31595

ttattagagg ggatgctat ctaaactta acttctcaag gaagcttctc taggaagctt 60
 tcatttaggt actgaccttc aaagtccac ttctcttact attttggtc cttcaattcc 120
 atgccccccc tctctctctc attcttttcc tccattgaag cttcctctct aatgtgaaga 180
 cttcaaagct ccacttctct ccctctattg tctactgtaa tctcatgcc cctctctgta 240
 tattctt 247

<210> 31596
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31596

agcttggttaa ctntagtccc tatgctacaa agctgattct gaggacaatt tattatcatg 60
 catagcctgc cagagttggc tcacaacagg ccaatcaaac ctatggagca ttttcttaag 120
 caagtaacct agcctgaagc tcaacttcca ttggtgagac ccaatgaggc tgctctcct 180
 gagcccatatc ttgcacaggt tgaactagag ccaactgac cacaatctcc agtggtgaat 240
 ccaccttctt ctctgagct tgaagtagtt ctccatctc cacctctgat tatcatctcc 300
 gattccccat ctagagaaac tgntgctccc cctgattcac cagctcgaga agtagctgat 360
 cccctg 367

<210> 31597
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31597

tataagaaca aaattgcctt aatcatttac aaatatgcat gtgaattang acgcatcaac 60
 aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaatgatta 120
 taatgatgga tggctcaa at tctcaciaag gtaaaatcat cactttcaaa ttgagctttc 180
 aaaactatca tgacatgtag agaagaatca aggatttcaa gtcacaaaat gtcaagaact 240
 tttattttca aaacaattac ccatttcttg aacatattcct ataattcaaa gaanaacatg 300
 caaagtcgta cgtgcacaca taattgaccc ataattattaa actgaatatc cgacgaaact 360
 aacaacatta acaaattaac acaactaaca aatgaacaat accaacaaaa ctagcataac 420
 ctaagaacac ttcccc 437

<210> 31598
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 31598
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 atatcttaag aaggggggggt tgaattaaga tattccaaac ttttctccta attaaaaatc 120
 tatcttactt tgtacttaag ttatgaattc ccttaatgac aatcttctta tatattaatt 180
 caaatgaagc agcttgaatt atgaatataa agcaataata aataaaggag atctaaggaa 240
 gagaacatgc aaactcagtt ttatacttgt tcggccacac ccttgtgcct acgtacagtc 300
 cccaagcaac cgccttgaga gttccactaa cttgtaaatt cctttttacaa gttctaaaca 360
 ca 362

<210> 31599
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 31599
 agcctcagac aggtgcacga aagacttcgc agacgatgga acttagtccg ctccggagta 60
 tgacagtcac cgctttatga gcgctgtaca ccaacatcgc tatgaggcca tcaacggatg 120

SECRET

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<223>      unsure at all n locations
<400>      31600
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<210>	31601
<211>	449
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      31601
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13176

atgacggtca tggtctgccg ctcatccg

449

<210> 31602
<211> 324
<212> DNA
<213> Glycine max

<400> 31602

attatctttt agtaatcaat ctctaaattt taggatgaaa tgtatgaatg tggacatgat 60
gaacgccatg gttgtatata caaaccaatt gaccaaaaag cttaccttga attataattg 120
tatecttttg accctttgtg agccaaatta aagttgcaaa attgaaccct gaacttgaat 180
gactatcttc aaataccttg cttagattct acgatagcat atggctcaag gcaatttacc 240
tcaacattgg gggagttaac ggggatgtaa agtggaatgt aaagctcatc aacacacaca 300
acacataagt tgtgttaaaa aaaa 324

<210> 31603
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31603

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cctcggaagc aaaaaagaat agaggggaaa tttccaatca aagaaaaaga gaaggataat 120
ttccaatgaa agcaaaaaag aaatgaagga atattcccca atcaaagagt gggagatagc 180
aaaaaaagga aaagaaggaa aattcccca tcaaagagtg ggagatagca aaaagaaaag 240
atagataatt cccaaccaa gaatgggaga aagtaaaaaa ggaagagaag atagcttctg 300
gtcaaagata ccagaagata tgtgcagaga ggtctttaga accgacaata tctgaacaat 360
acagaattgt cactaaatga acaaaaaagaa ggataggaaa ccgtgaccta naatgggtctt 420
ctccctttaa t 431

<210> 31604
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations

[illegible]

<210>	31605
<211>	419
<212>	DNA
<213>	Glycine max

ttatggagaa	acagtacaca	tttgatagtt	ntgggtcctg	gctntagcca	cttgggtccca	60
attcttcagt	tctccaagag	acttggttcag	ctccatccaa	actntcatgt	cacatgccta	120
attcccacac	tcggtgtctcc	cccaagtgcc	tcaatatcca	tccttcaaac	tcttccacca	180
aacatcaaca	ctatTTTTct	tcaaccggtg	aaacctgagg	acctaccaca	aggggctacc	240
atagaaactc	aaattcagct	catagtggct	ctctctatgc	cctccataca	tcaggccctg	300
aagaccttaa	cttcaaggac	tcgctntgtg	gccttgggtg	ctgattcttc	tgcccttgac	360
gcattagatn	ttgctaata	gttcaacatg	ttgtcctata	tntacctccc	catatcagc	419

<210>	31606
<211>	331
<212>	DNA
<213>	Glycine max

tgtctagagg	aaaagatcct	catggcagat	aacaacaaca	gtcagttcat	ttgtgagggg	60
gcacccctca	cgaggtcacc	aggcttcaca	agagaggact	atccttattg	gaaagacaaa	120
attgagatgt	acatcaagtt	caacccctac	aaactctggc	taatcatcac	aaatggagat	180
atacccattc	ccagaccttg	tcataatgga	gctaaacaca	aaagttcatt	atactctaac	240

<211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31609

tatcctgaca ttgtttcaaa gcctccaaca gtccaacttg ctcaactcac tcaaattact 60
 agacaattta aaataaatac agtgactata tgcattgttta atattaaagt atattttctt 120
 tatattatta gtttacatgt agataagatt taataaatag tcattaataa tcacaatctt 180
 caaatcagga ttaccactaa actaattaat tggtacaaat caaatcagga tcattaattt 240
 tcgtgacctt gtttgaacct attgtaacag agaatggcaa gtatatgagt tgtctcattc 300
 ctttcacgcg ttttgttttt gtcttgccct ggcatnttct cgggctgttc agtgaccacc 360
 atcacttgga tgtctgttta ttcgtttggc actgcgctnn tgggttagtt agccacactt 420
 ctagttgtgg cctgcactgg aagatacann atagtagaca agttaaag 468

<210> 31610
 <211> 309
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31610

agcttgtatg tgatcaagtt taacttacca acaataacaa tttcctccct ttgttatatt 60
 ctctcaccta gcttcagcaa ttcagctttt cctgtggctc ttccctcct tttcatatc 120
 tttttctctg tctaaggaag tgtgcagcaa aaaaaagaaa actttgttac tcagtatgtt 180
 aatatgacga cgaanatgga gaactgtcca cettaccgca ctcccatcct tttctttntg 240
 tattggttct ggtaaagctc aagtgagaag cccactaaa catatactat atattaatta 300
 actatatat 309

<210> 31611
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31611

gaatgctttc tgtcttgtgc caatggaata aattgacttg tcgccaagtt ttggactggt 60

tcctgaacca taatgatact ggtcaatctt tagttcaaat ggacaagcta aatgtgaaat 120
ctaattgtca cctatacagg aatttggagg gaagagtgga aaggcggcag aaaacagaac 180
tcatacctgt agtgtcaagc acagaagaat gacttttctt taaattcccc agactttctt 240
cttcaaaacg ttcacgaccc tcagagagta tgccaagata agcatacaca ttgggtctgaa 300
tggtcaactn tatattntca cgttcatctt ctgannaggg ggtgcttttg taaagaatct 360
tggcctgaca taagcattta caattctata aatacattga tttcttggct ttcttcaaca 420
acaacatgca tg 432

<210> 31612
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31612

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agtacgacag tcaccgcttt aggagcgttg tacatcagca gcgcttcgaa gccatcaagg 120
gatggtcgtt tctccgggag cgacgcgtcc agctcagggg cgacgagtat actgatttcc 180
aggaggaaat agggcgcccg cggtgggcac cactgggttac tcccatggcc aagtttgatc 240
cagaaatagt ccttgagttt tacgccaatg cttggccaac agaggaaggc gtgcgtgaca 300
tgaggctctg ngttangggc cagtggatcc cgttcgatgc cgacgctatc agccagctcc 360
tgggatatcc gat 373

<210> 31613
<211> 401
<212> DNA
<213> Glycine max

<400> 31613

tgaatcggac atccgtgtga gaagttatga ccatttgaat ttctcaagag cttccgctgt 60
tcattttoga tctctcgcac atattatgca cccgaatcgg acatctgtgt gagaagtcac 120
gatcatttga atttctcgag agtttccgat gtataatttc gagcgtatcg atatattata 180
accctgaatc ggacctcagt ctgaaaagtt atgaccattt gaatttgacg agagcttccg 240

<223> unsure at all n locations
<400> 31616

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actgtgggtg aacatttggt atgcgagAAC aagttcgagc agattgtctc caatgaagaa 120
tgtaagtgtt gtactttgta acagacatag aaaagaggca gagtgagaac ttgacaaaac 180
ctgcgggatg gccaagctag caatagtgat gccggacaca aggtcagatt tgaagagttt 240
gagattatac ttangacccc attggagaat agggAACaca tattgagctc caaggatcag 300
ttntctctta agaggttgtc ccttgaattg gcgcagagga tcatcangga agaaagtttc 360
cttgagccta cccttgagtt tctg 384

<210> 31617
<211> 295
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31617

tatttttggga gtgattaaag aactctatcc cttatatata aacacaaaca gctcgcgtta 60
ttcaactagc accatcacca cttatccga caacaaggca ttcaacacca atatttaatc 120
atcacaatac taccctacc atangcactg gataagatta agatacaaaa gcaagaatga 180
tgcacacat cccttggtt ngctttataa ccaagaccaa cctgtggcac atgtattgat 240
gttacagcat ttcacaatca aaagttttac cctcanagac acacatatat tttat 295

<210> 31618
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31618

taatacatga cggggtcact ctctatttag acggctgaag aatttattac aaatttctca 60
cacagagatt acgctttagt ttctctcact agaatccttc aacttgatt caagatgctc 120
ttcaaACatg tcttacagct ctatggaaga ccattgaaat gggctctacc caactgaaaa 180
acttctggaa caagtagaca aacatgacaa ctatcatgaa atgactgctc gcataacatt 240
ctaagacaga cattctgagg aacatnttgt ataatttct tgaagcatct gtacaatagt 300

cattctgatg tttgctgaga aagaatttat acttgtagta gattcttttg atgaatttca 360
 actaatatgc ctttctaaag taatgcagct tcatcaatca taacacatcg tcacagcac 419

<210> 31619
 <211> 212
 <212> DNA
 <213> Glycine max

<400> 31619

gtcgctgct gcatgcattc tttaaattga atatgcaacg ctccgcataa tttcgaactg 60
 ctgtcatcca ttacaatgat ttggtaatct attaccactg cttttgaatg ctgaaatttg 120
 aattcaaagg tgaatagtca caacctttca cataacagct ttgtgtaatc gattacactt 180
 atttgtgaat ccattaccaa tgattgcttc tg 212

<210> 31620
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31620

tgtagatgct tcgaggctct ccaatgtcaa accttgnngtt tgatgagcct ttggagaagc 60
 aagactcact aagggtggat cttgggtttg acgagcctct ggagaagtga gactcaacta 120
 ggacagacct tgggtttgac gagccttttg agaagtgaga ttcaccaagg atagactttg 180
 ggtttcaaaa acctataagt ctcaccaagg acaaaccttg tgtttgatga gcctttggaa 240
 acacaagact caccaaggac ggaccttggtg tttgatgagc ctttggagaa gcgagactca 300
 ccaagggcaa accttgtgtt taacgagcct ttggagagggc aagactcact aagagcaggc 360
 attgnngtgat gagtcttaga ctanggaatg ctcgac 396

<210> 31621
 <211> 282
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31621

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aagcactggt aatcaattac caaaacattg gaatcgatta cagctttttg aaattaattg 120
 gaacattggt aattcaattt gaaaagtgga gccttagatt acaattgtgt gaaattatgt 180
 atctaaactt ttattttctt ntattntttg aggtcaacaa aagtggagct cttgctccta 240
 cgtacccttc atcgaagagg aaatcagacc tacgtaattc tt 282

<210> 31622
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31622

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 agctgcagca ccagctccgc ttccctaact gtactggagg cggttgtggt ggctttatcc 120
 tctatggttt tctggagttt taacatgacc tccgagatgg aagccatttg atcttttaag 180
 gccgatagat cggccttcatt ctattcctac acgccctctt cattatccat ttttctggat 240
 cgagtgttat aggggtgcct tgggtgttttc ttagttatga tcaaattcct aaagaaataa 300
 acaatggtga gtatgccacc aaaacatgag tatgcaaag gatgatcgga gcgcttgat 360
 ccaccccaag gttttttaga taacatggtg agtccataac ttctcatnt atataaagaa 420
 canagctttc atcta 435

<210> 31623
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31623

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 aaaaaatata tganaatata aaaaanaaaa agtccctaca acaaagacaa ccanaatgc 120
 cctcaaatac aaggctaaaa ccctatacta caagaatggc caaaatacaa ggcccaaaag 180
 aaggaaaaac ctattctaatt atttacaag ataagcgggc tcatacttag cccatgggct 240
 cgaaatctac cctaaggctc atgagaaccc tagggccttc ccttggatct ctagcccaat 300
 caacttgag tcttctaccc aatgcccttg cgggtganga ttgcatcaat atgt 354

<210> 31624
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 31624

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 aatttgatca tctgctctg atgaatgcga aaaatgggga aaatgaagag gatgagaata 120
 aggagaaaac ccttgctatg actgccattc ctacacgggc aaatttccca tcagcctaac 180
 aatgtcatta ctacagcaat aacagtcctt ctcaccaat catccacaaa agtcatcccc 240
 aaatcagcca caaggcctgc ctgcttaccg cagcccaat gcccaaacac caccttttagc 300
 gc 302

<210> 31625
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31625

ntctcatgag ctcccttgag tgctccttga ggaatacana aatggaagca catgggaaga 60
 aaaaaggtta ttaccacact aagacataac ccaagaataa caagaggaga aatgagcttt 120
 cttttgcaca aagaggacca aaactccaac tcttaagata agggttctct tggagaagga 180
 gaatagagta gagaatgata ttgtgatgtg agttgtagat taataaagggt tttatgagga 240
 gtttatgatt atctcacttc tttctgtatg cactctacac ttcattaaac ttaatcacca 300
 tttttgtgac ccaagatcca tccacttatg tcgcaacact ctataactca tcaaaacaca 360
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<210> 31626
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31626

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tttttggtag ttgatttgac ttgtttgttt aaggaaatag gtgatgcttg gataaggggt 180
atgtggacta naaattccaa atggaagtgg ttgtatagag aaatcacgtt gtttatggaa 240
ttgtgtanca tcaatgtgaa ggctaaatca ctgaatgggg agtgaactgg cttcacgact 300
gctactgctg tcttagacag gcttcttana ttctgctta taaggtaatg gcttggtata 360
atcagtcctt tgtatctacc cattatccaa gtactccctt gttattggt 409

<210> 31627
<211> 450
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31627

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agtccccata tttcttaaaa tccataattt taatccccta ttttaaaatg tagacattta 180
gtctcttgct tttaaaatct ataatttttg tcattctctc aaacttaaag caatgatggt 240
aagaaattaa taatgaatat gacataaatt aaacaaatta tcttttgctc cttaaatttg 300
accacatcaa attaatttct taccatcaat gtnnttttaa attgatgaaa gaatcataat 360
tgtgacattt acaaagctaa aggactaaat gtctntattn tataatanaa gaactaanat 420
tatgagattt aaaaaataac aaactaaaat 450

<210> 31628
<211> 430
<212> DNA
<213> Glycine max
<400> 31628

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gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tggtgcccac 120
ctccaactga gctcacatac tcccacgtag cccatatcct cgtttctctc aacaccgggt 180

[illegible]

agcctgattt	atatttattt	attaaactat	aagtgttcgg	aacaatcaat	ggatgaaata	60
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aacaagatga	gataaatatc	ttaacgatcg	aaaaaaatat	tcacaagtta	gaaatcaaaa	180
gctagaattt	caaaaaacat	gttaaaagtt	acttaaaaaa	cctacttaaa	aaactttatt	240
atcggatact	caaatgacat	tcttaactat	taaaaaacta	aacactaact	acaatatctt	300
accaaaaaata	atcttagtat	ttttaatctt	gatcatccat	gtgtataatc	ataagaacta	360
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<400> 31634

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gcagaaagga	tattatcttc	atcgggtagg	tgattgctaa	ctttcatgag	tgagccaaga	180
gaattcatct	gaaagggtta	agatacaatc	agatgacagc	ttccaagaat	aaaattgaaa	240
actagtttta	ctccagataa	aaacaatatg	gcagtcacta	ttgaccacc	tagctgagaa	300
aaatgataga	actacagtct	tttatgtact	taatgaccta	ccaattataa	ttattaatcc	360
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<400> 31635

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ccagtatttt tataataaag atgtattcct ttttaattga caaattatnt agttttattaa 180

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ttttatttat tcaaattaat ttattcaata ttattgaatt ccagtcaatt acttgctaaa 240
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 aaatagatat atgaagtaga aaaatcaa ataatcatgtt tacagagagt tccaatttaa 360
 tacaacgggc tactcaatat gtcttcctct ttggtactct tagtcttcga gacaat 416

<210> 31636
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31636

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 gatgattata ttactatct ctgggtgtt tatggttatg aattttaaac ttagttattt 180
 tgataatata tgatcagtgg tatgtacttt tatttggtta ttatgagtga cttttctgga 240
 ttatatgaca ttctatgaag tatatctttc taagattgat gaatgggtta gttatcttgt 300
 ttgattgttt tctattctct tgtatgatta gtaatttatg tatgttttat atttgttatg 360
 cattttggct ttntgttgat gccaaagggg gagagaaata nggattaaat caagaactcg 420

<210> 31637
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31637

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 ttttactcgg atgtctgatt gagtcccgtg atataacgag acgtcaaaa ttgaatgttg 180
 aagcttagag ccaattcaaa cgacaataac ttattactcg gatgtctgat tgagtccgt 240
 catatatcga gacgctcgaa attgaatgtt gaagctctta gccaatcaa acgacaataa 300
 ctttatactc gaatgtctga ttgagtcctg taatataacg agacgctcga aattgaatgt 360
 tgaagctctg agccaattca aacgacaata actttntact cggatgtctg attgagtcct 420

<210> 31638
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31638

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 ctccctttgc aggtggagct gatattgagg aggaggaact aacagatttg aggtcaaadc 180
 ctcttcaagg ggaaggggat gatgcaatcc tccctaggaa gggaccaatc actagaacca 240
 tgagcaagag gctccaagaa gattgngcta gagctgctga agaaggccct anggttctca 300
 tgaaccttan ggtagatttc tgagcccatg ggccaagggtt ggggtccaatt atctttgtac 360
 atattagact angatgtcat tataatntggc ccttgatat anggtccat att 413

<210> 31639
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31639

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 cgttatactt ttttttggg catttctaca tgtgactaaa tggctgcta cattgaaacc 180
 atgtcccttc ttcctgtctt ttgttatact attgataagg aagcttttgt gctccctgt 240
 tactcttggg aatgtggtag tgggtggactt ttttctgac tgatctcatg ctcatgtcg 300
 ttccacaccc ctgtctgaat tggagacttt tagaattcta agagttcttt actcccaaat 360
 aattgtcaag atcttaagtt cattggatac caatttctac acttaactgg ttccttga 419

<210> 31640
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31640

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cagagcgcaa gagagtacag agagctagac atcaaattt aaaaaaaaag cataaaacct 180
tctaagacga tttttttaca aaaccgtctt aaaatgacag tcttttaaga tggttttcgt 240
aaaatcgtct tcggtgaaaa ctttcgtatt tataaaattg tcaactgccta tatacgggaa 300
ccgtcttaat ttcggtgttg tagaaaatat ttttttctag tagtgactnt ctctcttaat 360
aaatttaaaa attagaaaat gttctagaat tgaagtgtaa ctctt 405

<210> 31641
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31641

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caagtgtatc acacaattat ggcttttctc taatgaaaca ctcttgctt ttaccactct 180
aattccccct gagttcttag gcaattcaag agattatggc cacaacaaag aacaattcac 240
caatatgtgt aaggtaaggc tagacaagga aaagggttaac caagaaaaag gctaacaatg 300
tttttaggca caaatgaagg anataaaatt cagaatttag gaattcaagt aacaatcctt 360
catgcaacca atatattacc ttanagagtt ttttttttaa gttcttcaag catgaacat 420
tc 422

<210> 31642
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31642

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gatgtccgat tctggcaaat cacatatcag gacactcgaa attgaacaat ggaagctctt 120

gagaatttca aatgggtcata actttttcaca cggatgttag attaaggcgc atcacatata 180
gagacgctcg aaaatgaaca acggaagctc tggggaacat aagatgggtca taactttctca 240
cactgaggtc ctattctggc ttataatata ttgatatgct cgagattaaa catctgaagc 300
tctcgagaaa ttcanatggc cataactatt cacacggatg tccgattcgg gcgcataata 360
tg 362

<210> 31643
<211> 261
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31643

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acgaagctag agcttagcta cacatacctc tctaatagct aagctcacct ccttgagatg 120
agaagctaga gcttagctac acaccncta taatagctaa gcttaccccc atgacaaana 180
acatgagaat acaaaanana gtccttacta ganagactac tcanaatacc ccgaaatata 240
aggctaanac cctatactac t 261

<210> 31644
<211> 311
<212> DNA
<213> Glycine max

<400> 31644

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cagaggcttt gtcaagggaa agagtgaaga gatcgccgtt gttgagtatc ttggcacgac 120
catctcccca agttacgtca aaatcctggt agaagttgcc agcagaggct gcgatggaag 180
aggccaatac aaatacataa aggacagttt ttgttgaaaa tgtaatggaa tgaagagaag 240
ccatgattgt tttgaatgaa atgtagaaag aggaagttaa aaatgtagta gcttggtaga 300
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<210> 31645
<211> 419
<212> DNA

[illegible]

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<223>      unsure at all n locations
<400>      31645
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gttaagcaga	taatgcta	attagcatgg	cagatttaca	agtaattgga	gaggttgggt	180
tggagatata	gctttactac	agtaaata	ctttttccat	ctaatgaagt	tgaaattttt	240
gacaggttgg	gttggagata	tagatttaca	agtaattgga	gaggttgggt	tggagatata	300
gatttacaag	tggatctggt	tactagacgc	agataaatgc	tttnggggtg	ctgcaacata	360
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<210>	31646
<211>	394
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      31646
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tatatataga tccttataag tacttgtaaa tgaagaaaat cacaaggata aatgaaataa	180
acttctcccg tacgtaatag cttatggggg aaacttaatt tcatttttcc ttattttctt	240
cttttataag tgcttatgga aaactttatc ctaacagaac cttattctct gtcttgacac	300
gatcntattg caattccaga gtactaatag ggactaggta gagtaatctt ttaacgaaat	360
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<210>	31647
<211>	406
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      31647      .
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tcatttttcc catgtcattt ggtatccctc caaacagatg atttctagac aagttcaaaa 120

cttcattcac caagatacca atgcactgca gtacaccaat gcagcacaca attaatt 416

<210> 31650
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31650

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gccattgcat cactcaccca atactacgac cagcctttga gatgcttcac attcggagac 180
ttccaattag taccaaccat tgaagaattt gaggagattc taggatgtcc tctcggggga 240
agaaaaccat atctttcatc cgggtgtctc ccctctntga gcagaattgc aactgtggtc 300
aaggattcag caagaggttt ggaccacata aaacagactc ggaacggcat agcgggccta 360
ccacggaggt acct 374

<210> 31651
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31651

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aaaatataaa agaagccata atagatgata actggatcat tgccatgcaa gaagaactga 180
accaatttga aagaaacaat gtatggaaat tagtagaaaa acctgaaaat taccctatca 240
taggaacaaa atgggttttt agaaataagt tagatgaaca tgggtataatt attagaaata 300
aagccaggtt agtagcaaaa ggggtataata tagaagaagg aatagactat gaagaacat 360
atgctc 366

<210> 31652
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31652

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ctccagatca aaaaagtggg accgtaggct ctgcatcaaa ttgatggcac gacaaaacaa 180
ttttactaca tcaggaaaca agcatgattt caacaatat gttaataaga taaccactga 240
cctgttttca ttgcagggtg ctgttgatga ttcangtccg tgctttcatt gaccatcggt 300
ttgcttgcat ctcttctttt cttcatcttt gaggcgctca gagaaccttc tactgtagag 360
tatgngntaa gaaaacaata tanatcatta gtaatgctta agaggagtaa tcagaat 417

<210> 31653
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31653

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tttttactcg gatgtctgat tgagtcccgt aagatatcga gacgctcgaa attgaatctt 180
gaacttctga gctaattcaa acgacaataa cttttttctc ggatgtctga ctgagtcccg 240
taacatattg agacgctcga aattgaatgt tgaacctctg agctaattaa aacgacatta 300
actntttact cagatgtctg attgagtcct gtaacttatc gagacgctcg aaattgaacg 360
ttgaagctcc gagccaatac aaacgaccat aactgtntac tcggatgtct gattg 415

<210> 31654
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31654

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gttgtgagac gagaagcggt gaagcggtgt acatgggaag taatggacag tgacagaggc 180

gaagagatga agatatacgc catgcacctg aagacattgg ctgcatacgc tgctggtgac 240
 ggtggaattt ctcatagaaa cattactgaa tttgtgaata acttggtcca ttngtaatta 300
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 gttgtttca 369

<210> 31655
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31655

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 accgcaaagc agatagcttg gaaatttcag atggaattgc tccagacagc ttattacttg 180
 aaagatcaat cattctcacc aatatcagat tgtctctgta ctctaactca tctcctttgg 240
 gaactaagac aagagtttcc ttgtagtggg tataactgaa gtcagagcca tatgaataac 300
 ttanagggtt ggcaaagaag tcattctcac cagccattgt cttcatgtca tccaaaccaa 360
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<210> 31656
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 31656

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<210> 31657
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31657

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 acatagaatg taacttcata ccttggttttc ccaacatgac aatattgaaa gcataaattt 360
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<210> 31658
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31658

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 gatggtcgtt tctccgggag cgacgcgtcc agctcaggga cgacgagtat actgattttc 180
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 cagaaatagt ccttgaattt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300
 tgagatcctg ngttangggc cagtggatcc cgttcgatgc cgacgctatc a 351

<210> 31659
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31659

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 caagtccata acatcaattt aaacttgtcc aaactggatt tacacctaaa atttcaccga 180
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 gtcatttggt tttctctcta gtcagccta acctttctca taaatcctaa atgacatttc 300
 aaactaggat taactcattt taaccttcat ttactacaga atccagattt aaccttctaa 360
 ctctcaaagc ctcaactctnt ntccactcac aacaccacat tctctctttc taaccctagg 420
 ttaactct 428

<210> 31660
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31660

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 cctgtgcgct ataatgccta agtgcctata caagcttaaa caaaggatgt tttatgggtc 180
 tgatacatgg atggtttata tttagtggta agactttaag atgcactatt tgataatgca 240
 atgggtctcta ctcttgagca cgatagcagc tacctaccta agtatgatcc acatattggg 300
 aattgtaaaa ttcanaatat tataactaatc ctctcatttt atttgctact cttgaaatat 360
 ttctttatca taaactatgt gccagttaga atattataca aatatta 407

<210> 31661
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31661

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 gcctgaatcg gacctctgag ctaaaagtta tgaccatttg aatttctcga gaggcttccg 180

ttgtcaattt catgctctc gatataattat atgcctgaat cggacctccg agttaaaggt 240
 tatgaccatt tgaatntctt gagagcttcc gttgggtcaat ttcgagcgtc tcgatataatt 300
 atgtgcctga atcgaacctc cgagtgacta tgtatgacca ttngaattgc tcaacagctt 360
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 acgtatgac 429

<210> 31662
 <211> 310
 <212> DNA
 <213> Glycine max

<400> 31662

agctttctcat atgtgtttgc acctaaatcg gtcacccgag ttagaagtta tgaccatctg 60
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 ctgacctccg agagacaagt tatgactcat gcgaattgct catgagcttc cattgttcaa 180
 tctcgagcgt gtcgatatat tatgcgcctg aatcggacct ccgacttaag agatatgacc 240
 ttctcataac tcgatagctc ccgccgttca atttctaacg tctcgacata ttttgcgctc 300
 gaatcggaca 310

<210> 31663
 <211> 309
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31663

ttgcattgaa ttactgcctt ctcttttatt atatcttttt ctgggcttca gtaatactta 60
 tctgctttat aggagtcgat ctccaagaag ttgaccatt tcctttaata tactaccagc 120
 ttctattaca ttctctcctt gttccaaaaa cagtcaaaat tactgacaca tgttaagagg 180
 cagacaaaac ttggtttata atgcgtgtca ctcaatgctg ggatctttct tgattacaat 240
 acttcacgtt ctgaataata tcttatatca tttctgaata tatgcgagat tntattcttt 300
 gaaatcaca 309

<210> 31664

<211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31664

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agcttttctgt ctcattgagga atgccttgcg cttagatagc atgaaaaagc ccttcgataa 60
tatgtatgta tgtaaatatg tagcatgaaa tgccttgcaa aatgttgaat aaaatgcctt 120
gcaaaatatg aatatatata gcaggaaaat gccttcata atatgaatat atatagcatg 180
aagtgcctta caaaatgctt ggatgggtag cgtaaaagtg tttttcaaaa tatgtgtatt 240
tgtgagtacg tagcaaaaaga agccttccaa aaaatgtgta tatatatagg atgtagcatg 300
aaaagggttg tcaaanaata tgcacatgga tatgtgtcgt acaatgcttc tcacaaaatt 360
attatgtgtg caaatgcgta tgtgtcat 388
```

<210> 31665
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31665

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agcttcatat agttagtga gagagatgaa ggaacttctg gtctaaaagc caggatcttg 60
ggctgctgat gtaatttgat tgatatccaa ttttaaccctc aattagttgt tcctaattgg 120
cctgtgcgct ataatgccta agtgcctata caagcttaaa caaaggatgt tttatggtct 180
tgatacatgg atggtttata tttagtggta agactttaag atgcactatt tgataatgca 240
atggtctcta ctcttgagca cgatagcagc tacctaccta agtatgatcc acatattggg 300
aattgtaaaa ttcanaatat tatactaata ctctcatttt atttgtcact tttgaaatat 360
ttctttatca taaactatnt gccatntaga atattatnaa aatattaatc actttctctt 420
aataa 425
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<210> 31666
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31666

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aactaaaaaa tcaagcaaaa tatggcaaat gcagaaaact ctgccccata ctcaaaccaa 300
aatcacagct gtttctcact tanagaccgc agtaacattt ctttcgttcc aattgggttaa 360
cacgatggat tgactcgaac aatttactgg aagtctctag tacataagtc ta 412

<210> 31669
<211> 366
<212> DNA
<213> Glycine max

<400> 31669

ttgcttggtc tttatgcccc acaggggaatc aacatcgcat gaagtgtcaa ccataggggg 60
tgaaaagagg tggaagccga tgccaacaca gtggaggttaa agaaaaagga ggcggcatca 120
taggagcact catggtcacc acaccgacac tcagcaagga tgtagcgacg gtgaacgaag 180
gagacacaat aggactagcc aaagcagctg gcgcatcaac ttcagtagta ggagtggcct 240
cctgaacaag cacaacaaga ggaggtggag gagtaggagt aacaacaaca acaacagcga 300
aagcaaaagc ctcaacggat cttgcaaact tgaagggatga cctgaatcaa gcgtcaaccc 360
tacagc 366

<210> 31670
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31670

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aacagtccca ctctcccaat ttacacaaat catattcata catcattggg gcatttcacc 120
gagcacttgg tgagcacatg tttggacata aattgcaaga ggatggggac aatgtggcat 180
gccccattgc ttcagaatac agcataggcc taaggccttc tcattcaaat cctcaattca 240
agaaaacaag cataaaaaaa aaccaaaact gcccacaaa tacaagcaca ttctctcaat 300
ttggagcacc aaaagatgaa gaanatatac caatgggaag ctganaacat caaggattga 360
atacttactt gttggagtgg acaataacac caaaaatg 398

<210> 31671
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 31671

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 aaccgcgaat ggggttaggc aaagacaacg gcggcataac tagcctgata aatgccaaag 120
 gaaattgtgg gaagtatggg ttaggctata agcccactca ggcagatatac aagagaagca 180
 tcgcgggaag gaagagcggg agtcaaagct cgcgggttgag acaagaaggc gaaggaagcc 240
 caccctgccca cataagtagg agctttataa gcgcaggtct gggggacgaa tgtcaagtgg 300
 tcgcgatata cgaagatgat gttccgagta catt 334

<210> 31672
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31672

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 atatgttgaa agtatttggt atataatggt atattaaagg atgaaattaa aataaagaga 120
 aaaataaata gatatttgta cttgaaaatg atataatata atctttttta aaatttattt 180
 tattgaatat attttttctc ttttatatta ttattattag ttaagggttaa atcatttgga 240
 taatatgtga gttgaattct tgacataaat cattcttaat cagattntat ttattttttt 300
 ctaatgaatc ggagaattaa cacaaaaata aataaataat aataataata ataataataa 360
 taataataat aataataata atattattat tattattatt attattatta ttattattat 420
 tat 423

<210> 31673
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31673

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 ttttcactag gagggaaagt gctaagaacg aaaagagaat tgaggaggat gtgcatgatg 240
 atgaacgaga aaagaaagaa gagggagaaa aagatcagag caatgaaagt ggtgatgagg 300
 tctcaaccac taacaccaag accaagagcc agtttagctta tgaggctaga agagaaatac 360
 tctcaacctc atcataagag acatcgtacc ctctcgtgcc atcaaagaag gataacgaac 420
 actattt 427

<210> 31676
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 31676

gcttttttat tattaataaac aaaattgctt aatgctgaat gttcatgtat cttctttaat 60
 tgaacaaagc ataataaagg caaggcagag gtattatgtg gctctgatac caaatgtaaa 120
 attatacata tattgatcta aacatgcaaa tcaatttaaa tgacatattt atatcaaaca 180
 gcggagatta aatatattac gagcgtacct ccagccattg caaattgaac gggaagcggc 240
 gaacacacga acctgaaaga cagttctgtt cttccagacc cttactcatt ctaaatagat 300
 ggtgtatttt ttttctgaat agaggagtga gtttggtgat acaaaactga gagcaccaca 360
 tcctatacta tttatagtgt ctgatcatca cagagcttcc aacttcttgg tatgata 417

<210> 31677
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 31677

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 cattcgcacc tgtctcaagg gtttgtggtt tgtgctcctc tgctgaccac catacagacc 120
 tttgaccttc catgcagcaa cctgtagcaa tcgaacagcc tgaagcttat gctgcaaata 180
 tttacaatag acctgctcaa cctcagcaac aaaatcaacc acagcacaac aattatgacc 240
 ttcccagcaa cagatacaac cctggatgga ggaatcacc taacctcaga tggtacattc 300
 ctgagcaaca acagcagcca gctctttcct tacataatgc tgttggccca agcagaccat 360

acattcctac atcaatgcaa caacagcaac tactctaata actagcaaca act

413

<210> 31678
<211> 320
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31678

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anattcaaga atgtcaaact tctttntggc tgtttccata tctctgttcc acatttatga 120
gttttgtcta atattcaaga atctcanaca ccttgcttcc attgcaacct tanaacatnt 180
acttanagac ataagctgag ccaaatttct tacctacaaa tactatgacc aacttcatga 240
tatgccacta aactntngat ctacccatct gtcacagtg ttcctttcat tccatccata 300
atcctatcag tagaatcatc 320

<210> 31679
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31679

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tagagatgga tattcaatat atagatagaa gaaaagaaaa cacaatcatt ttctactttc 120
tagtttttct accaagctag taaaatggaa ttgtttcaat ccacatcttt catagaaaca 180
aactaaattt gtcactcagt caatagtaaa gaggatacaa agtataattt aattgatgac 240
attgtcatac tgtagtcct tcaaatgtat tattattggt gatcacgcaa acttgttcat 300
caagtgggtc cccaacacct cgactatcat catggagaat acgccttgag tagtaaacat 360
tgtgttaata ctntgtttgc aataaaataa tattgaatta gcattaataa aagagagctt 420
gaatacc 427

<210> 31680
<211> 373
<212> DNA
<213> Glycine max

<400> 31680

ttgcttgctc taaatttaca ttgatgtttg tatttatggg aggaggttgt atgtcatttt 60

tgttttaaga gtagtgctcc actggtaaaa ctaactttcc aaatgtttgc cttcgagga 120

aatggccccg aggaagcttg cctcaaagag gtccaggaag gacaaggcag ccgaaggagc 180

tagttccgct ccggagtatg atagtcaccg ctttaggagt gctgtacacc agcagcgctt 240

cgaggccatc aagggatggg cgtttctccg ggagcgacgc gtccagctca gggacgacga 300

gtatactgat ttccaggagg aaatatggcg ccggcggtgg gcatcactgg ttactcccat 360

ggccaagttt gat 373

<210> 31681

<211> 344

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31681

gatcacatga acggccgttc catctatata tatatatagt accttaatcc ccactagggtg 60

ctctccaacg ctgcttacct tgggtcaaccc gcataccaaa tagtattata tagtgaataa 120

tataagatga gtatttcaaa ctaaatacaaa tcaatgaaat ctattactat gaatacaaca 180

tctatctttg aatacgaaat aaacgagtaa gatccccccc actaatacc taagtaataa 240

gcccgtgctt tgcttatttg gttgcacaag tgtagccttc accattcaca tgggagacaa 300

ccagattcat gctctgatca agatgaacac tattnctctt atgt 344

<210> 31682

<211> 104

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31682

accctgtata acgggacagc acacgttctc aactgngttc cctattccca catgcaccaa 60

ccctccaagc acatccaagc aaagccccaa ttttagggca tcaa 104

<210> 31683

<211> 357

<212> DNA

<213> Glycine max

<400> 31683

agcttgagat gaggaagtgt tgaaggggtga aacttcctgc ttttattgtt gaccacagag 60
tggtacctgg agatatgtcg cgggggtcaa gagaccttgg ggacgtcagg tgggggtgcta 120
ttgccccaaa ccaagcttga ccaatcccgga cccaaccggg gcatagtccg tcagtgagaa 180
cctgtgatgt acctaagcaa gcgagctcct ggcagtcaac agataaaagg aaaacaagac 240
cacaaagcaa ggaggcttgt ggtggctggc cagctgtgaa ttttgtgtaa tatgtggatt 300
gtggcctctg gtaatcgatt accaaggggtg ggtaatcgat tacaaggctt aaaaatg 357

<210> 31684

<211> 360

<212> DNA

<213> Glycine max

<400> 31684

gcatatagta catgtcagct catcttcttg acctccggta cctgcctctg ttcctccaga 60
ttcttgttta acctgataga acattaaata aagaaactaa aaaccgttcc cattccaaga 120
ataagaaagt agggaagcca tcaagtgggg gcaatttctg cccagattta taaaaaaaaag 180
agtataaaat agtcacttta tttaattaca caaggacacc attatcatca tgcattaaaa 240
gaatcatata tatttgtttt cttcaaaagc acatcaatga agaggacatc acgatcacat 300
aagggttaat taccagatat ttttcaacct atatcccagg ggattgccta taatacttat 360

<210> 31685

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31685

agctntgggt cagtagtta ccaagtttca catcccacaa cttctccccg tagaataaaa 60
cataaacaca cacacaatgg aagtacctaa agtttaacaa aagccaacca caaattatta 120
atttgatcaa atgaaagaat tcaataaaag cattgcagaa tttttaaaat cttttgcatt 180
ctcattctcc tgcgacagaa tatgcagaaa aatgatttgg ttgggcaagc agtgtgtaac 240
accctgaaat gttattaatt ataattcgat gcttgattgt gtttagcttg ttgtttgaat 300

atatgtttga ctntaatggt ttgaaatatg actagaatta gtcattgtgtg aattttcttaa 360
tgtggatgtg gacttatgtg gag 383

<210> 31686
<211> 264
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31686

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aaacatagaa accacaaaaa caagttgttt aagaaaccac gcaacggaag catagcagaa 120
cacgagtgat ataccaagtg aaaaccaatt caaatgaatt tacgaagcta acacttgaat 180
ctatcaaaag cctccaataa actaaatcga aacgcgaact ccaaacaaca tcaaaaagca 240
aaaaaccttc agagactaga ttct 264

<210> 31687
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31687

agctttcana ttaagttgcc taatgcctaa aatgtttttt ctgatggtag tggtcctaga 60
tgcaggaag aattttctcca agaacacctt cttaagggtca tcccaactga aaatggacct 120
gcgagcaagg tagtatagcc aatcttttgc cactccctcc agagaatgag gaaaagcctt 180
tagaaagata tgatcttctt ggacatcagg gggcttcatt gtggaacaaa caatatggaa 240
ccccttaaga tgcttatgag gatcttcacc tgcaagacca tgaaacttag gcaacagatg 300
tattagtcca gtcttgagaa catatggaac acccttatca ngatattgaa tgcacaagct 360
ctcacaagtg anacaggtg cagccatctc cctaagagtc ctctca 406

<210> 31688
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 31688

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ttagagttta tctcttttat cttagcgaga gtgattctcc taaattcttg agtgattcaa 120
gaacaccttg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaaag 180
agtgattctt tccttccttt catcatcacc cttgttcttt caaaccacaa ttccagaaaa 240
tccacctctg ccagaatta tctcgtggcc ataactccaa ttntaagcac tcaaattaag 300
tgattcttga gcctaaattg aatttcaaaa cgagaccttt cacctcgttn tggaatcacc 360
tcattnggag ccctgtagct tcagttattg ccatttctat atttctgtcc agccaccact 420
t 421

<210> 31689

<211> 393

<212> DNA

<213> Glycine max

<400> 31689

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gaacagatca cgaggctatg ttaaacaatga aaactgaatt catggctctg tgggatggat 120
ttacaacaga tcgtaagttt aacagttatc atattttatt ttgttgcata aatattgaaa 180
ataagttgca aataagataa tgacaatttt gatagagatt tagttggtaa cataatgttc 240
tcaatttatt tatatttgag tagatttgtt gattgggggtg acttattgtg tgtgtagaga 300
atgctcaagt tatggttctt gcagcaacta atcgtccttc agaacttgat gaagcaatac 360
ttcggcgtct tctcaagcc ttgaaattg gaa 393

<210> 31690

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31690

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taagtatatt caccaggaaa acatcgtagt ggaaggaaat tgtagtgctg tgattcaata 120
gatccttcca cccaagcata aagaccctgn gagtgaact attccttatt caattggaga 180

agtcactgtg ggaaaggctc ttattgacct gngagccaac attaatttaa tgccactctc 240
catgtgtaga aggttgggag agttggagat catgcccact angatgactn tacaacttgt 300
tgatcgctcc attaccagac catatggagt aattgaagat gtgctgggtca gagtgaaaca 360
ttntatcttc ccggcagact ntgtagtaat ggatatctgt gaagatactg acattcctgt 420
aatattgg 428

<210> 31691
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31691

accacnacag agaaggagcg caccttgaag cttcaccacc tcatacaata atgtgttcca 60
cgaagtcact accacactct accttgtgct aagattctca catgaccgct catttatctc 120
tatatatgac actctctacc gcatcaggtg cgcatacacc atctctcatg gaccaactat 180
ggctaaaaag ctcaaacatc tcttcaactgc cagagagcgc ctctgacgtt tcacagcctc 240
ctggcaattt gtaacttcat cgcgctcgtc ttggaatgaa gaacatgaga tacataggag 300
gaacgcgctg gacatctaca gatagnaaac acgtcactcg atatactttt caatgagagg 360
agagcgcgta ttattaaagg taactgttga cg 392

<210> 31692
<211> 421
<212> DNA
<213> Glycine max

<400> 31692

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cgaagaattc tttttgcggc ttttagatga ggagaggtag gagcctccat aaagcgacac 120
acaactccca ccgcataatag aatatcgggc cttgtattgg ttagatacct taaactcccc 180
acaagactct tgaagatcgt gaagtctacc ttctctcctt catcaaactt tgataacttc 240
aagccacett ccataggtgt gttcacggga ttgcaatcaa gcatattaaa ttacttcaac 300
acttcttttg tgtaccttcc ttgtgagaca aagataccat tctccgtttt cttcacttcc 360

attcacaagt aatatgacat gagtcccata tctgtcatat cacattcacg agacatggac 420
t 421

<210> 31693
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31693

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gtgggcctgg ttgctattta cccccccatt ttactaaat gcaccccctt tctatttttt 120
tgtaattctt tttccgtaac gttacgaaac ttacgaatt ccgtaacgat acttattttc 180
cttctgcaag gttatgaatc cttacggatt atgtatttac tcttttttag ctttcgaaga 240
agttacggaa acccccggat tgcgcaaaaa cacctctttt cgacttccgc cacattacgg 300
aatttcacgg atcgcgcaag cctgcttctt ttaatttct gagacgtctc aggacttcat 360
ttactgtgca acanaggatg ccaagtatct canagcggct aaccaaagggt tacatgtcat 420
caagt 425

<210> 31694
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31694

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caagtaaaac taaacggtag ttaaccaatt ttctgacgaa tattaattat caaaatgaac 120
agtacttcat atctataata taataaaaaa aacaataaat aacattaata gtgtgtttca 180
gctttatatc atttctaac taaaaaagaa gcattaggat atctttgagc tttaaatttg 240
gtggcattag ttccgatggt taaatggcaa ttgtttaatt taaggggctg gtctagttag 300
agagtcatg tgtaaataa tggatgatt gatgaatgac cagatgtact cgagtgcag 360
acaagatgtg aatgggccat atattgcttg agcagcaaca gcaagacann atagtctc 418

<210> 31695

<211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31695

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ggccctgatt gtgcttggtc atttgcaact catctcgtac ccggcatcct ctagagtcac 60
ctgcntgcat gcangcttgt atctattaat ttttngttgn nattgtgaat ttacgcatgc 120
aatcttaatt ctcaacacac tgtntggatg agtcttccaa ggattgtggt gccttctcta 180
actctccttc cttttccagt gataaggtaa agctacaaaa ttgagtctcc caatttttga 240
tataagttgt gtaagaccat ctntaattcg aacaatgtgg cttaaagggtg taaatgcaca 300
atccttccaa gcgagcaact cagagggtga acgccatctt atgaattcgt atgagcatct 360
tcaatganaa tggaagactt gaacgacagt ggttggttg ctctcattgt tctggaatag 420
atanggatct atatatgnca cactgatgaa ggatgaacaa actcattatg catccangta 480
aacttgat 488
```

<210> 31696
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31696

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agctttatat tntgttcttc gtattcttaa tagagtcctt tataaaaaaa aaatttaaaa 60
aaaaatcttt ataagctatg gagaaaaaga gaaccaaattc tgaaatatct taaagtgtgg 120
gggtgtctag taaagggtcaa tatccctatt aataagaaaa gaaaaattga aaaaaaatgt 180
taattgtatt ttgttggtata ttttttacct aatactactt atagattctt agttgttaat 240
tcagaagtga ctaaaattta taatgttact attatgtaat ctagagatat cactttcttt 300
gaaaatcttt ttccttanaa aagaaattgt taaatcttta tatggtttga aacaagcccc 360
anagcaatga cacacaagtt tgatcaagtt attctttcgt atgattntca nattaatgat 420
agtgat 426
```

<210> 31697
 <211> 413
 <212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 31697

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gtttataaag aaaatgaata ttcaataagc tttaatctga aggatatagc caaatgggca 120
gaaattgatt attcacagca tactctagct agcatgattt ttaaattgggt atgattcata 180
atcattcaaa cacaatgtag atagaaccaa caaaagtgtt tcacgatctg tgaattttgt 240
atacagccaa caacagctgc tagaaatctc tgtctgtcct agtattaggc ctgcgcagat 300
tatttgtctg atggctaata ttaccagag ccagcttgat ggctntaaat caccctttt 360
cacttgcgaa tatttatttg gcttctttca tataattaat gtgcacatat tat 413

<210> 31698
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31698

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aacatcaaga atcaacaatg tcaaaaagtgt ttaaacaggg gaatcgggtga gagcaacaac 180
ttctctagat gacgaatcag aaagattagg aattcctcca attggggaaa caagggggtc 240
agctattttct gtagctggtg aatcaggagg agtagctgct tcattctgatg atgcgtcaga 300
aatgacaatc agaggaggag atgngngaac tgcttcaagc tcaagcgaag aaggtggatt 360
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<210> 31699
<211> 414
<212> DNA
<213> Glycine max

<400> 31699

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cattattcta	tggaattca	tttcattaat	acaatgtatt	ggactggatc	cctaacattg	180
tcatatattt	tccacaaatc	ggataatttt	gtcaaataatt	tcttcatgcg	agtgcacggt	240
aaggtcataa	agctctgatg	aaatattcaa	ttcacttgaa	cttgttgaaa	caccattaat	300
ttcaaagaac	caaggttcag	ttgctttcat	gatcagaact	tgctacacac	cgtatagtta	360
ttggtcattg	ctcagcaagt	gctgcactcc	tgcccaatca	tgctcggtta	ttct	414

caaaacaggg aggagcttgc cgcccagctc gccagggcgt gcctaggctt tcttaggaag 360
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<210> 31702
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31702

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 agtcacctac cattttctag cagtcctaaa gcatatgtat tcatctatga aagacaacct 180
 accaatgagt cttctaattc aacttgctaa cccttaactt aaaacgacac ctagcatga 240
 acttcaccac atatctcttc aagtcatttt gcacaacttt caaatttttc ttattgacca 300
 ttgcaattgt tttcacaact tctttgatat cttttttggg gttaaaaatc agcccactct 360
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 tctc 424

<210> 31703
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31703

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 atgcatagca ctggggctga gctaactgcc tcttgtaacg cgtgaaaggc tagcatggcc 180
 tacggtgacc acacaagggtg ttccttggtc aagagatgaa tcacaggggt tgctatggta 240
 gcatattctc tgatgaaaca tctatcataa cctgtgagac ccatatatcc ccacagggtt 300
 ctaaaggagg tgggtcgcgg ccattgatga atggcaagta tcttgtcacg aacgggatga 360
 acaccgcgaa cggataccac atgac 385

<210> 31704

<211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31704

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 tcttcttcat caatggattc ctttgcttct tggaagatga atggcagcgg aatggagaaa 180
 ggaagagaga gaggagacgc cacttcaagg agaagatgag tctagaagaa gctcaccacc 240
 ataggaggcc atggataaga gcttggagga agaaggagat gaatgaaggg agagggagag 300
 aagagcacga nattntgtgc tctanatgag ctttgagatc tgaagtttaa tattcanatg 360
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<210> 31705
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 31705

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 gaagactata ttatctacac aaaaggtaca cttctctata tttgcataga ggggtgttttt 180
 cctaaggact gaaagaactt gcctaagatg tcctaagtga tcagctaggc ttctactgta 240
 cactaaaata tcatcaaaat aaacaactac aaatctacct atgacatccc ttaagacatg 300
 atgcataagc ctcataaagg tgcttggtgc attagtgage ccaaaaggca tcactagtca 360
 ttcatacaaa ccaaacttgg tcttgagagc gatttacact cat 403

<210> 31706
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31706

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 tgggccaaag ctttaaattt tattattatt taaatgcaca tcagacttat ttatggcaaa 180
 tctttaatcc taaagctggt gaggtttata ccatacaca gtgtaacatg ttcattgttg 240
 aaacaatgag gatctgcctt ctatgtaatc ttaagaatgt tttgattgat ctttagaaat 300
 gtcattctatt gtagattgta gatgctgcct tttctttntt ctatctctct ttttttcgtg 360
 ttttgtactt ccactgcctt gtacccttgc tacttatntc aatggggttt gtacgactct 420

<210> 31707
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 31707

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 gtagataaga aggcgatgga agagctaaac ggtactcaat cattgaacca acttcttgga 180
 gggctcaga tagcaaagct agcatctcat aatctccatc ttcataaatg actactactc 240
 tatgccaaacc ataagcatgt actacatctg caacacattt tgcattatgca gtaccatatt 300
 tggccattct taccgaaaaa tgccagcgag ttgtcatcaa tg 342

<210> 31708
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31708

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 ttcaaggaag ttttcgcaaa caagcttctc aacgatgttt tctcatgaaa gcttctcaag 120
 gaaactatct actctataaa tacaagcatg tgtaacacat gttgtaactt tcttgaatga 180
 aagtcttatg agatacaatt cacagttcca cttntttttc cttttattcc ttcattctgt 240
 gctcccgctt tgtatctttc ttttcttcca ttaaagtatc ctcttcaagc ttcttatcca 300
 aagcaattgt tggcggtgaa gctccttctt ccttggctga ttccctatgg atgggtgcccc 360
 cctttccttt ctcttttctt c 381

[illegible][illegible][illegible][illegible][illegible][illegible]

<211> 389
 <212> DNA
 <213> Glycine max

 <400> 31711

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 tcaaggtttg agaagtgaaa ttgagaatgg ggtaaatttg gagtaaaacc tcacctcaca 120
 caagtctata acatcaattt aaacttgctc aactggattt acacctaata tttcaccgaa 180
 tcaaaatttg actcctcaac acccaatttt accctagaaa tggctctttg ttcactttgg 240
 ccatttgttt ttctctcttg cacagcccaa acttttctcat aagtcctaaa tgacatttca 300
 aactaggatt aactcccttt aacctccaaa taccactaaa tccagatctg gccttccaac 360
 tctcatagtc tcactctggt tgcactcac 389

<210> 31712
 <211> 338
 <212> DNA
 <213> Glycine max

 <400> 31712

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 cctcggaagc aaaaaagaat agaagggaaa tttccaatct aaaaataaaa aatagagaag 120
 gaaaattccc aatgaaagag aaaaaagaaa agacaggaaa ttccaatca aagaatggga 180
 gaaagcacia agacaagaaa gaacattccc aaccaaagaa tgggaaaagt aactaacaca 240
 acacaacagc tctcgggtcaa agaaactaga agaaatgtgc agaaagggtct tttgaccaga 300
 caatatctga acaatacaga attgtcacca aatgaaca 338

<210> 31713
 <211> 380
 <212> DNA
 <213> Glycine max

 <400> 31713

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 ctgctaagtg caacattcct gggctaagcg caaggaagaa tccataagaa gatgagttgt 120
 acaagttcgc taagtgcacc gcttcatctt actaagcgca ccacttcagt tcattctgcta 180

agcgagaaaa gcgggctaag ccaaaaatca ctaacgtgcg ctaagcggtc cataagtgcg 240
 ctaagcacac gagcacaac aagggcacct agttaagcct gaaatcagat tttgtgaagg 300
 gagtttggac taggattcag agctttgcat gtctaggggtt tctagagaga gaaagtccaa 360
 gttctagaga gttttgagag 380

<210> 31714
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31714

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 cagtacacac ttccgccatg gcttttgctt tggctaacag acgcgggagg tcttgacttt 180
 catttaaggt caaggcgaac ctatccatcc acatagtcgc ttcttgatct acgcatccat 240
 cccctccctc ttgcttcttt ttccgcatac acttggtgcaa aatccaccac tagctattgt 300
 tcatggggcca tggactgctt caattcttca ttgtattgcc ccatgatagc taccatgctt 360
 tgctccaggg ctctcaagtg ttgagccaaa ctcttcttg acctcgtgca agcaactaac 420
 tcttctttta atatcatgcc atgcacccgc gacc 454

<210> 31715
 <211> 382
 <212> DNA
 <213> Glycine max
 <400> 31715

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 atatatcgag acgctcaaaa tttagatccg aagctctgag aaaattgaat tgacaataac 120
 tttatacacg gatgtccggt tgagtccggt aatatatcga gacgctccaa attgaaaacg 180
 gaaactctta gaaaattcaa acgacaataa ctttttactc ggatgcccga cagagtgtcg 240
 taatatatcg agagacgctc catattgact atgaacgctc gtatcatatg taaacgacaa 300
 taactttata ctacagatgct tgatagagtc ccgtaatatata tcgagacgct caaattttag 360
 atccgaagct ctgagaaaaat tg 382

<210> 31716
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31716

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 aagttattgt cgtttgaatt ccctacgagc ttcccttttc aatttggagc gtcttgatct 120
 attacaggac tcaaccggac atccgtgtat aaagttattg tcatttcaat tttctcagag 180
 cttcggatct aaattttgag cgtctcgata tattacggga ctctcacac atccgctaaa 240
 aagttaatgt cttttgaatt tgatacgagc ttncgttttc aatttggagc atctctcgat 300
 aaattacgac actctgtcgg gcatccaagt aaaaagttat tggcgttcga attctctaag 360
 agtttccggt ctcaatttgg agcgtctcga tatattacgg gactc 405

<210> 31717
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 31717

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 caatctgaaa atttttctaa gtcattttct gcttatctct tcacacataa tttaaaaacc 120
 atttttgttc attactaaac aagctgaaat taatcacaat cacaagcaag atgtcctaac 180
 tacatgcaag aaataaaaat gaagatagag aagggaaaga aaaactgggt tgcctcccag 240
 taagcgettc tttaacgtca ctagcttgac gcatcatcct gttatccagg atccaataat 300
 gttcccactt caaggacctt cttctcagga cttctatcct ctatcacatg aac 353

<210> 31718
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31718

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aagactggaa agcggcttct aacgattctt gtgcggcttc cacataacgc atggaggatg 360
ggcagcttac caagatatct atctcgcttg acacgatgac caagtgtcc tccactacga 420
atttcaac 428

<210> 31721
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31721

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ggattataca caactatgct ggacttcgag tagctagatt tggttggact tggacttctc 120
tttatttgtt acctaattat agacaactat cactatccta ctctcttggt acacaatata 180
agttgttacc aaaagaaaaa gaaaaatggt tgttagggag tataattgtt ttccaatggt 240
agtcattata tgccctttga atgccaatac taaaagcaaa gtcatgacat tgggcttata 300
ctttttacag aggaacctaa acatgggttg catcatggtg ttgccatagt ttttgccatt 360
ntactactgg ttgcaggana ttcagtagca aacttttg 398

<210> 31722
<211> 453
<212> DNA
<213> Glycine max

<400> 31722

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aaaggggaat ttagttttca gctgcacaac tgaatcagta tgaagttaat ataacagaag 120
cacatgtcaa ttactttaac aagcttacct gcactgtgtt gttagcaagg tccagcatcc 180
agaacccaag aataaatata agagcagccc ttgttcgggt ccctttaaat gttcttaatt 240
tcagacagaa tttcattaat gtctaactaa ggatcatcata tctgtgaatt ttaaaaagac 300
agaaataaaa tgagtaacga aataacgaaa ggatgagata agaaacctgc aatgctcgtg 360
tgtatcacct aatacatatc caatgtctgc agaacatccg attaatatca cctacattac 420
aagacttgac ttaccatatg tgtaatgtag cat 453

<210> 31723
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 31723

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 atttccaaga gtcacatcta ttcaaattggg ttatgaatgg ccatcaaagg tgacttggaa 120
 acacgaattt aaagagagtt ttcatgtccc acaaagttaa tcctctcaaa agattaagag 180
 tttttctgaa ctgaactgtc ttatcctctc aaaaagattc cttgggtcaac cacttgcata 240
 ttcaataagg aattttgatt ggtcttcatt gtacaatcta tcccttttaa gagagatttc 300
 ttcttctctt cttcttactt ctgaaaaggg attaagagac tgagagtctc ttattgtaga 360
 ggattcttga acaca 375

<210> 31724
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31724

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 ctttgtcacg ggaagccgga aggtccatat caccttctta attgtacata tggggcactg 120
 cgcccccaaa tgcgcgagta agaagagata attttccggg ctctcgtgtc cgtaaaatgc 180
 attcatatca tgcaccgcat aaacatctct tcagcatcat aatgaacata tcgtcctgca 240
 tttgtcgtaa tcacattccc attttgcatt agtcattgca tcatcatatg cgttcaacat 300
 actttttgtt tgctcataca taatccttgt attttctctt acaaaacaaa aacaaaaaaa 360
 agggaagtac aaaaattcac gcagcattct tagttgcata tattccgtac catgagccaa 420
 ccatgttggg atcataaacc catttcacaa cacaacaa 458

<210> 31725
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 31725

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 gattaaggat tgattgattc tagagggtggg caaaatcggg gctgaattgg ttaatgtaag 360
 agtcgtgacc aatgtcctaa tatactagct cacagatct 399

<210> 31728
 <211> 514
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31728

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 atacacctcg acaacttcag tctggagctg gataagtgt ctggcatact tttgttcaga 120
 ttattgatca aactagatgg gcgtgtattc ttggcgatta cctggcgcg catagtnatc 180
 taccatttgt tcatatgctg tcaactgatgt cggcatctaa ttataccttt tggatgtgga 240
 aagctgttat aagtcgtaaa cctatatcca cacaccgcca ttatgttaat cctactttga 300
 tcatacgccc tcccgctccc tgacctcgca tggaatgaca tttatacgaa cgtgtgtcct 360
 cgaccctagt atggtggata gagacatgtc ctttcggatg ctgcattgat cacattcttg 420
 cttaaagcgc atgtcacttg ttaccattag tatttagtac ctcatagaac ccctccgtag 480
 tgcctatagt accacttgac cctagagact tacn 514

<210> 31729
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 31729

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 taagacttgg gttgatactg aaacttgtgc tttcttaciaa ggttaggttg tgccatatat 180
 atagatgagt tttaatatca gtgttgatt ttttaaagat tgaaaatacg tatgcacatg 240
 ctttctgtat gtgttgtaa ctacacgaat gacatgacat gcttttagctt gcacagatt 300
 tgcatatgta gtcattgtgt gtacggctct ttcacgcgtt ttatgttaat gcagacaaca 360

atttatcata cacgattttc cacaatgtgt a

391

<210> 31730
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31730

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ttctatcaca ctcccgagc cgaagcgaga ggtcgatgaa cacgaacact atgactgtct 180
cgaactggac ccgggaccat ggccactaat tttttatttt tttcagaacc ttgtaatattc 240
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tgaggtagcc accattgccg atccggcttc ctcaagtatg agcatcaacc gagcctgata 360
aaacgaaggt tgatgatcac tctgctgaat taacatcctt acacctcgat atgcacttgt 420
gagacccgaa acaagttgaa tga 443

<210> 31731
<211> 389
<212> DNA
<213> Glycine max

<400> 31731

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gctttcggca agacttatgg aaagatctta gaattgacct tagcagaggt atccatagaa 120
gccattgcat cactcacca atactacgac cagcctttga gatgcttcac attcggagac 180
ttccaattag taccaaccat tgaagaattt gaggaattc taggatgtcc tctcggggga 240
agaaaaccat atctttcatt cgggtgtctc ccctctttga gcagaattgc aactgtggtc 300
aaggattcag caagaggttt ggacagcata aaacagactc ggaacggcat ggcgggccta 360
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<210> 31732
<211> 440
<212> DNA
<213> Glycine max

[illegible]

<210>	31733
<211>	392
<212>	DNA
<213>	Glycine max

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caaatgatga	atcatctttg	aatcatctat	ctttcaatct	ttacaacatc	atccctcaac	120
atctttcaat	caatctttca	atatctttct	acagaatfff	ctgattcatt	tctcttcac	180
ttctaaaagt	ttttgatcaa	cactttctct	tccaagaaaa	gttctttggt	caaaaacttg	240
tgctattcat	ctttttcatt	cactttctcc	tttgccaaaa	gaacgaagga	ctaaccgct	300
gaattctttt	gtgtctctct	tctcccttac	aaaagattca	aaggactaac	cgcttaagaa	360
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<223>      unsure at all n locations
<400>      31734
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13232

<400> 31737

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<210>      31738
<211>      414
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      31738
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<210>	31739
<211>	323
<212>	DNA
<213>	Glycine max
<400>	31739

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31744

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gtgagtagca ttctgaaaga tgcttctgtt cctgaagctg atgaagatgt cccaacatcg 180
tccaacccaa atgtttctgt gcctgatgtt gagaaagatg ttccaacatc ttccgcccac 240
atgctgagta ctctcttccc ccagcaaaga gagatcaaca gaggaagatg atcaagcgac 300
aaaggagacc cctgcaccaa gggcaccaga acctgctcca ggtgacctca ttgacctgca 360
agaagtagaa tctgatgagg aaccatttgc caacaggttg gcacctggcg ttgcagaacg 420
attacaaagc cg 432

<210> 31745
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31745

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ctttaattat tttatgacca tttttcttta aatgttttaa ttacaatcta tttattttta 180
tttcttttcc ttttaactgc tccatcacat cactataaat attggccctt ggcacatcaatt 240
ntagatacac caaaacgaag aacatcttca tcttctcttc tttctctgag ttctcccttt 300
tttgatttcc ttgctagtgc ttgttccatg ttcatacatg aaggatctgt taaatcttag 360
ttgatatgcg cactacgcat ataagtcata aagcac 396

<210> 31746
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31746

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tgtgatgtga aaatagaagt acggagcatg cttttcttag aaaatttatt ttttctcggt 180
ctgtgattat tagtaaatat tggcttctgt tcttttgaaa ttggaagtaa tgaacacatc 240
actgttttaa tgatttggtt ctacaacttt cactttgcat tgctttgtag ctntgtgttc 300
atccaatcgt ggtaagtggg tatacttctc atgtataact gtgataagga tttgctttct 360
aatttgaggg tactccagta caggcacatg atgatatggg ttctggaaca attgatgcga 420
aatttgatgg tggatatgta gttacagtga ttct 454

<210> 31747
<211> 396
<212> DNA
<213> Glycine max

<400> 31747
agcttgagat gaggaagtgt tgaaggggtga aacttctctg ttttattgtt gaccacagag 60
tggtacctgg agatatgtcg cgggggtcag gagaccttgg ggacgtcagg tgggggtgcta 120
ttgccccaaa ccaagcttga ccaatcccga cccaaccgg gcatagtcgg tcagtgagaa 180
cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataaaagg aaaacaagac 240
caciaagcaa ggaggcttgt ggtggctggc cagctgtgaa ttttgtgtaa tatgtggatg 300
gtggcctctg gtaatcgatt acaaggctta aaattgagga caggaggcta agatgggtctc 360
tggtaatcga ttaccaaggg gtgtaatcga ttacca 396

<210> 31748
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31748

cttcaacctt ggccatcatt tctgccccac atcgcgaaag gagggcattt tcgggtgtcgt 60
gaagtgcgtg gctacgagtg ggacttcgaa aattcaggtt tgggtggact tctttctctc 120
ttaaatttcg tgggtatggg gttttgggag atatgatggg tagtcttgct agttctctgc 180
ttcatgatag ttatttggtg agaaacttgt tgaaagcttg ttgaaattgc catgctggat 240

gagttaacat acccattctg ttttaggggt tttatgagga tgcttgtgat gttcatgtac 300
 tgaaattgct tatggaaaac tgtagagat gaaaggtaga gttaacctag ggctagaaag 360
 tgagaatgtg gtgttatgag tggaaaaaga gtgacgctnt gagagttgaa aggctaaatc 420
 tggattctat agtaaatgga ggtaatatg agttaat 457

<210> 31749
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 31749

agctttccct ctttgaacaa ataccctca gccaaataaa atccatcttg ggccttttgc 60
 ccataactct cattaatggg agagaaatgt tcatctgaag catacaattc cctaattgta 120
 tcaaactcta aaatttgagc tccaaaggag taaaacaatg tgtgcctgct agagagggca 180
 tcaactacca catttgtttt tccctttttg tttttgataa catatggaaa ttactctagg 240
 tactctaccc attttgcagc ccttttttta acttgctttg cgctctaattg tatttttagtg 300
 attcatgac actatgaatg acaaattcct tggaaacaag ataatgttcc caagtttgga 360
 gggctattat taaggcaaaa agctctctat cat 393

<210> 31750
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31750

tagcgagagt tggaggtatt tagatctgta gaactcgcta aatggcccat ctgcgtgcta 60
 agccaagccc tttatgtgtt caaaaaagaa ttttgaattt tgaatttcaa acatgggtta 120
 agcgcacgac tgctaagcga agcactttga gaaaccaaatt tttctctctg gctcacttag 180
 agctttggct cgctaagaga gaggctcgaa aattgcttaa gtgagtgtaa catctttaca 240
 ctacttttgc ccagatttcg cagacaattt ccctgcaatc tctctctccc ataatttggtg 300
 caccttgcat ttgagctttc tatttgcatt gtctacttat cttcaciaag catcaatgat 360
 acaagtaagt tccttactcc ctttattctt ttattntggt gaaccttacg gtagagaacc 420

atacatgtta gctgtcaatc tttacgtgtt tcatgatat

459

<210> 31751
<211> 394
<212> DNA
<213> Glycine max

<400> 31751

agcttaatag ccaaatacaag aaagaaagaa ggaatctctt gtgaagttgt attcacttaa 60
aataggtttt caaatcctta aaaaataatg atttacttat ggatcaaact atgatagccc 120
caatggaatt tttcttccac atcaaatacat tttttttcta gcagtggcca tatcagccca 180
tatgctatga agcacgtgta cctgcatttg cttcacaagt ccataattca aacccttagt 240
atTTTTggat aattcattga tacacttgta cctacaatta ctttgtcacc aatcaaatat 300
tacatcacat caaattacaa tattgtgaaa ttgaacagcc ctagttgcaa taaaaaatca 360
aacaacttaa acataatgtt gagttccaac gaac 394

<210> 31752
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31752

tggaactcgt ctggacttgg tgctntaagg cttcctatgt acttgatggt ctataacttt 60
ttagcattag agggaattct actcatctct tccaaccatt cttcttccat ctggggaaag 120
gcattagtca caacaaagga ttggtaaaca ccatectcta catatagctg cctatagaaa 180
tctatcacca tatttctttc aatgagaatt aacaaaattt ggaaactcaa aatgcactcc 240
tatgcacttc aaatttgaat ggtagtctat tatggctcat ttggataggt tcttcaagta 300
tcaaaaggag agttatatga taagacttca accaattaag atgaaataaa tatgcttttt 360
tgaatcatag tctgcattct aaattgataa tgtattttatc aagcctaaca ataagcttcc 420
ttttcgtcaa gtaagcgcat caccttgata caccaaa 457

<210> 31753
<211> 387
<212> DNA
<213> Glycine max

<400> 31753

agcttcttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60
atggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatctc catggtggaa 120
aaccaccatt agaggacctc attgaagctc aaagatccag cctccataga agctccacaa 180
gcaagcttcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttaaacc 240
tccattaatt ttttgcttta ccttctcttc tattggtggt tcttcatttt tctccatgta 300
tctcctcaca tgtcttgtgc taaatgttgt taacatgatt ctttagagtt tccaccgatt 360
aaacttgta tagaagctag atttgat 387

<210> 31754

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31754

tctgaatgtg ggctgagtga ggagagagag agagagttgc tttttggttt aaaacgcctt 60
ttctcttttc tattattnta ttttaagtta tgccacatgt ctccatttga gtggagcaaa 120
aggccactt tactcttgat gtgactcatg ctcagccaca tgaagagaat aatttgacct 180
tttgaaatgc caaagtcttg cctcggattg cgtgttgttt ctttggtcta gtcccttgcg 240
ttctctgtgc ccgtcggggc caattatcga aagtaggcaa tatatatatc acaatgctca 300
gaatgaaacc tcgagcgtgg ttcacaggtt gagtttgta aattctaagt cgcacgcaaa 360
acgatgatgt ttacactaat taattaagaa ttaacttata acctccaat tatggatata 420
tcttcc 426

<210> 31755

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31755

agctttgaga atatggttgc aaccattggt caatatgggc cacattttcc catttcaagc 60
tatcatgata tcagagttcc actcctgaag aaggaagttg aatacgctga aaatttgatg 120

aaaggccaca gggagcaatg ggtcaagtat ggttgacta ttatgtccta tgcattgatt 180
gatcggaataa aaaatctcaa ggttgaaaag aaatctcaag gatcacagat tgcttgggga 240
ctggatgtat gcacgggttg ttgccgaacc agtataaaaa ctcttgctg tttgtctct 300
tcttccctac tctnttaatt tccactgtgc attttaattt ctgtttttac ttttgcgtaa 360
gtttctcttc tactctntat tcacttaaca aca 393

<210> 31756
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31756

tatgtgcac acatttataa tagacctcct cagcagcaaa accaacagca atagaataat 60
catgaccttt caagcaatag atacaatcca ggttgaggga atcatccaaa tctaggatgg 120
acaagtcctc cacaacaaca acagtctatc cctccttttc agaattgtgc tggccaagc 180
aagccatatg ttcctcctcc aatgcagcaa tagcagcaac aacaacaaag caacaagcaa 240
ctatgcctct cctcaacctt acttaaaaga gttagtgtg cagatgacca tccagaatat 300
gcaatttcag caagagacaa gagcctccat tcaaagtctg acaaatacaga tagggcagat 360
ggctacttac atgaatcaag ctcaatccca aaattctgac agattgcctt cacaaactgt 420
gcagaatgca naacatgtga gtgccatcac cttg 454

<210> 31757
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31757

agctttcaaa acctaggat ttctgcaaaa gctgctctc ttgctgctc cagagctctt 60
ttctgaaat atgaactgtg gtgtgctgta aaattctttt cctgcgccc ttgttatcct 120
aattctgcat aaaacaggct ttaaataaggc tctgaattcc tgacgttgcg cttagcgcca 180
ccctcgcgct tagcacacga ccttgatatt gatgcctgc cagattcttc tgtcacgcta 240
agcgcggtga agctgcgctt agtggcggat gcgcgcttag cccactgatg agctaagctc 300

aactattact tttagcactt catgacttag cctcattntc acttgaaatt gctcatattt 360
catcattaata tccaatggac atattcta 388

<210> 31758
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31758

ntctcttcat ctctagagct agagagttgg atgttacatt gaatagattt ggttcttgtc 60
cctctcaaga gattttttag tgatttctag ttggttaagca cccatcctct tctcctatgg 120
tcccttgagt ttattttctt ctcccaccaa gtagacatga aatgggggtt cacttcaaata 180
tttgattggt aggtgaaaat ttaattgaaa tgagcctgag tcacaccact cattaaaatg 240
cagggaattg ctatttgcac tctccttta taataatata atccctattt atttatattt 300
ttccaaaata tccctaacaa tacattccca atgttcaactc cttgcaattg tctttcgtca 360
aatccctact gtgagtgcga gcacagagca acaatacacc atcaacaagg agganaactt 420
gtttcaagta acccaatcat t 441

<210> 31759
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31759

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ctcaagccct tattattatt attattatta acataatttt ttttaataat aacaataaat 120
aatatttatt tattcattta attataaaga aaacattntc acaatgcana ataactttat 180
ataataaata aatatataaa acaaatatct ggggtgttata gtccgtgtgt gtttgttatg 240
atgattgtgt atgatgggaa tttgtgatag gtgatgccaa caatgggtta cgtgggtgat 300
gatgtttatg actcctgatg atgaatgggtg atggaactat gttgctgttg acggtttgag 360
gaatatgttc taagggttgc atatat 386

<210> 31760
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 31760

tgatcaaaac aattatctaa tcattttcaat ccaactcaaat catacaattg ctcatctcaa 60
 tcatttctcaa acactcattt catgcaaaac aatccactgc atatcatttt caatcaattc 120
 actattcaaa cacgcttttg gtacaagtaa acaactcaaa gtgctgaaat ttaaataact 180
 aaaattttaa ataactaaaa tataaaaact gaaattaaaa tgactgaacc aaatcataaa 240
 aaactgaaaa taaactaaaa ttttcaagat gcacaaattt aaatgtcctg ctctgtggt 300
 tgctcctatg catgctcatt aagggtccaac acctgagcag ctggtgaatc ctgagagata 360
 ggctgctcta actcagatgc tagtgcagat ggtacaacat catcaggtat ggggtgctagg 420
 gatggctctg ggatctg 437

<210> 31761
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 31761

agcttagaaa gcaaccaaca tcacaggtaa acaaaagcaa gacacaactt taccaagtac 60
 caagcatgag tgaagaagtc aagaagatgg agatgaaacc caaacaacc atcttgatct 120
 tcttcaattt ttcaataaga tccatcaaat tccaagtcac aataatgaac taagcaaaat 180
 gacaccaaat agaacaccaa aacatgaaaa aacaccctag agaaaaaaaa atatagtttt 240
 ttttttttaa acatacaaac acagaaggaa aactcaccaa atagagggtta ttttaagcact 300
 tagagcacc tccaagacct ggtaagccat tgacattagt gctgctactc aagcaattct 360
 tctccaacct tctcacaatt gcatcccaaa caag 394

<210> 31762
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 31762

gcttatgctg aatcggtgcg gtaccgcac ctatgcattt gaagatctgc cttccatttc 60

tgcttgggtga ggaagcgaga atcatagcat ctgcttctca gctttctaaa actatttaca 120
gatatgcttt gccattaata tacaatgcac cttgggatcc ggctcctgcc ttatgccaac 180
tgcgcattat atgtcttttg aagatgctca tactacgctt acttggatat cctcgtgaag 240
cactatccga tgctctatcc atttttaaac acttcatagt acatgttgtg ctacaatcta 300
accggaagag taacgctatt catttagatg atggagagaa atgatgaggc ttctttcata 360
tcactgaac tatggatcgt tatagactaa ctgcctcac acac 404

<210> 31763
<211> 336
<212> DNA
<213> Glycine max

<400> 31763

agcttgtagg attatggggg acccatcaca tgtgggtacta ggtggcggtg ggcatggtg 60
cacaacaagt tttccacatc cacaatgcgc gcataaaccc accatcccct gttgccacc 120
tccatctgag ctacgtact cccacgtagc ccatatcctc gtttctctca acaccgggtc 180
cccatcaatc ctgccaagct tccacaacat ccaagcaaaa caacattcaa cagcacaagc 240
tatcacagcc aagcaaaaaca gggcaaaggc agaaaactct gctcaacaca ccaacaaaaa 300
tcacagcttt tctcacttaa agaccccagt aacaat 336

<210> 31764
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31764

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tcttaggcta ttcctaaatg gcgctcgaat aagccaatct tcattataat ggctacctta 120
agcttgttcc taaatgatgg gctagcttaa gctagcctgc taacttccaa gttcttcatt 180
agaatagcta gcttanaagt ctgcccctaa tgatctagct taactagctt ggtaattcca 240
aattctttac acttttcttt caatgatagc tgtaaatac tcttcaaaga gatccttaat 300
gtaattccta canagagact aaacaacaaa aaccacacaa aagcaatana actaagttct 360

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

agcttctggg gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60
tcttctatctt tcagattggg gatgcctcta acagcacctt tgtcaatgat tttcttcatg 120
cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcacg ttctttggag 180
gatagacatg tggaggagta gctgggtttct tgggggtgtcc ataggtaaca attgtccttt 240
gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300
gtgaagttta cattgaatcc ttcacacac agctgactga tgctaataaa gtttgcagtc 360
agtccttca ccagcagtag tttgttcaga ct 392

<210> 31768
<211> 452
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31768

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aagttattgt cgctggagtt ttgtaagagc ttcccttttc aattacgagc gtctcgatat 120
attacgggac acaatcggac acccgagtta aaagttattg acggttgaat gcgctcagag 180
cttctatctt caattacgag cgtctcgata tattacggga ctcaatcgga catctagcca 240
aaagttttgt cgttcgattt ttctgagagc ttctgttntc aatgacgagc gtctcgatat 300
actaccggac tcaatcggac atccgagtta taagttattg ccgtgagaat ctgctcagag 360
cttctgtttt caatttcgag cgtctcgata tactacggga ctcaatcnga catgcgagtg 420
aaaagttatt gtcgtttgga ttggctcaga gc 452

<210> 31769
<211> 394
<212> DNA
<213> Glycine max
<400> 31769

agcttttttg agtagaaaca tgggaccaac tcattttatt tcaaaaagaa agtcgtatct 60
agtcaaggtc tgagagacca tacaagtttc ctaacaattt ctaattatgt tggccattaa 120
gtctatcata tgctgacaat agccgagaag cccatgaatc ttttcggggg cggagtaggt 180

gtacgccatc gccttggcct tggctaacaa tcggggaagt tcttgactcc cgttcaaggt 240
aagagcaaac cgateccatcc acatggttgc ctcttgggtgt aaagagtcga tcacccttcc 300
tctagcctct tattccgcgt atacttgggc atactcgtec gcgaccctat gctcgtgggc 360
cgtggctatg cctaactctt ctcgatactt ggcg 394

<210> 31770
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31770

tacatagtcc tcattctaca ctaattctaa cccaacacaa ataccatata tatatacagc 60
tacagttaat atcttctacc ctaaagttaa gacaagaaac agagaaaaag gatcaaggaa 120
tttacttggga cggcgatga ttgatgcttc aaagtccaaa atgcacaaag agagtacaaa 180
tgcaaaatgt gcaaattttt ggagagagag aatgcacagg cggcgtttct gtaatctgca 240
aacgcgatgt aactgatgtt acactctctt aagcagtttt gatacttttg cttacaggac 300
cgttgcgcta agcaagcaag agagatgtct ggtttctaaa ccatgctcgc ttagcgaaca 360
tgcgcttagc cgacgtttca gattcgaaaa caatctttnt taacagatac tcggcttagc 420
gtgcaagtaa gt 432

<210> 31771
<211> 395
<212> DNA
<213> Glycine max

<400> 31771

agcttaatca attgaaaatt gacggtgtga gattttccct agactctact aggggcaatt 60
ttcattggca cccttaatca tgttcaattt gttggtaagt ttaggtcttt taatccaaaa 120
aaggaaactt ggttaccatg tgagagtaat ttggataaat gaaactagtt ttggttgta 180
tatgcatgaa tatttcgatg cttgtttgca acaatgtatt atacaaaagt acctaccaca 240
tagagagtgg ctatgcaatt tggaatgcat caagaagttt cagattgtgt gattgcattc 300
tctggcacca aagctattgc attgaaaaat tactgcatac ccaaaattac tttaaaaaat 360
tgcaaagaat attacttggc aaaaaagcag tctaa 395

<210> 31772
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31772

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 gttgtttaac attntgacaa atgaaagtta gaacaataat gatttgattc agctcatgct 120
 acattgagtt ttttaacttgt atttcacacg gaatattaat agtcaataat cttgaagtca 180
 gaaaaataat gatttgattc aactcatgct atatgtactt tgatatatta ttctttcaaa 240
 aattctgaaa gaggaatat ccaactcaaaa gcagattcca gacnaaaaaa atcaatcatg 300
 taaacacata gattggaatt ctaattgtta aaggcggaag caacaaaact aacagtgagt 360
 tacagccttg ggaagacaac ccncagtgc tcttcttgca actgggggat catgcaaaac 420
 atcaaaaca 429

<210> 31773
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 31773

agcttttgtg tgaaaggatg tgactcttca catttgaatt tgaatttcaa cattcaaagg 60
 cactggtaat cgattaccaa aacattgtta tcgattatag ctttatgaaa ataattggaa 120
 tgttgtaaat tcaaattgaa aactttttca aaacaatttt gctactggta atcgattaca 180
 acaatctggt aatcgattac ccgagagtaa aaactctttg gtaaagggtt ttgtcaaaaa 240
 ctcatgtgct attcaaagtt ttaaaaaact ttttaatact tatcttgatt gagtcttctc 300
 ttcattcttg aatcttgagt cttgaatctt gatcttgatt cttgagatct tgaaccttga 360
 atcttgattc ttgagtcttg aattcttc 388

<210> 31774
 <211> 453
 <212> DNA
 <213> Glycine max

(The following are the names of the persons who have been elected to the various offices of the Association, as reported by the Secretary.)

<210>	31775
<211>	388
<212>	DNA
<213>	Glycine max

agctttgatg	caacattggg	agaggttaat	gaaacaacga	gatgatgcg	tccatgagag	60
gttggatcaa	atggagaata	gagatcacia	tgaagaagaa	aggatgagaa	gatggaatga	120
tggtgttcct	agacaaaacc	gaattgatgg	tattaaactc	aacattcctc	catttaaagg	180
aaagaatgat	ccggaggcct	acttggagtg	ggagatgaaa	atagagcatg	ttttctcatg	240
caacatctat	gatgaggacc	agaaggtgaa	gcttgccgcc	acggagtttt	ccgactatgc	300
tcttgtgtgg	tggaacaagc	tacagaatga	gagagcaaga	aatgaagagc	caatgggttga	360
tacatggacg	gagatgaaaa	agatcatg				388

<210>	31776
<211>	408
<212>	DNA
<213>	Glycine max

tgcgcgcaac	attaaatgag	ctggaataaa	atgccttgcg	gaaatggata	gaggtraagaa	60
aagggtgat	gctaggtgca	cccagcatta	ttgctagtgc	accagcata	ttatgttaat	120
ggacaaaaat	acccccttgg	taatttttta	aaacaaatgt	gcagcgcccc	tgattttctct	180

tcttcttctc tcacacgact gtgcacccag cgctcccta tttccttttc tacgcgactc 240
 ttttcttgac ctcttcttag gccactctgc ttcttcttgt gtcattgtct tcttcttcat 300
 cctcgtttgt ctctgcgttg tgctttggag ctttgcattg acgacattga agacgtgaat 360
 tgngctgtgc tccaccgtcg acgtcgaggt aagcctattc ttcccatg 408

<210> 31777
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 31777

agcttgcaaa atggaagcaa agaagtctat ctatgggggg cagaatcact ctcattaatt 60
 cagttttatc agctttacct atctttttac tatctttttt taagatccct aaaaaagtgg 120
 tgcaaaagat tgtatcaatt cagagaaatt tcctttgggg aggtcatcat gaggccaaca 180
 agattccttg ggtgaagtgg gacacaattt gccttcctaa aaataaaggg ggcctaggga 240
 ttaaagatct ctaaatttaa tgaggcttta cttggcaa at ggggggtggga gctgactaat 300
 aatcagaacc aaccttgggc aagaatctta ctctccagat atggtggcgg gaaggagtgt 360
 atcttttggtg gaaagagcaa atcttctctt 390

<210> 31778
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31778

ntcccacaag actcttattc tggacccatt gcgattatgt tgttgaagca cacagttgcc 60
 tgtgtccaac acagtggcca gtgtgttatt gataggttga ggtggtgaat aaaggattat 120
 tggtgatttc ttcacttttt tcttaccatc ttgcgattct attttgagta cccctttgtg 180
 atccaatgat agaacagcag aatttgagtc aacaggttgg tctctatctc accccacact 240
 cccaatcatc tttcttttgg gcacatatag tcaagtaa ac tgcttcctga ttatcatgag 300
 ttattgggtc gaaactcatg caatatttac ctttttttga acatagctct gcccttggtg 360
 ccgcggcatt cagagtatca cctggcttca aactatcatt ggcttcaacg tggatacaag 420

tagtactcca ccacaaccac atatagatg

449

<210> 31779
<211> 381
<212> DNA
<213> Glycine max

<400> 31779

agctttataa ggcgaggtct aagacacgaa ggccaagtca ccgcgatatg cgaggatgac 60
tccccgagga ggtcggattt ggtacggcta tgtcctccta gtttccaact aggaaattgg 120
tgagtggagg agcaccaga cgtttacgcg gtaagcataa tgtaaccctt tgtagcatta 180
aaactctacg attgggccta ggcttttagag tttccttttt gttaaggcat tatgtctttt 240
gttcttgagt ttataatata aagatctttc ttcattctgtt cctgcgcctc taccattctt 300
cattcatttg catgtttatt tctttacgct taaaacgcca gatctgacga cgagtccttc 360
gaaggtacta ataccggga c 381

<210> 31780
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31780

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gcttttatcg gttaacatgg accgttcaaa agcataaaat caacacatca ctttactgcc 120
ttttgtgaga actatgtagg tctgatttcc ttttcaatgg aggatacgta ggagcaaaaag 180
ccccgctttt gtcgacctcg tgagatgggt agagggtccaa cgccttagct ttctcaccaa 240
taaaatggat cattttaagg tacaacacct tanatgacca ccttccaagt aaaaagaatc 300
acttgattcg ccccttttga aagaactacg tacgtatgat ttctctttcg atggaggata 360
cgtacgagca caagccccgc ttttgcgac ctcaaaaata aaaaaggaca aaaagtttac 420
gatacatgat ttcacacaac tctaaatct 449

<210> 31781
<211> 350
<212> DNA
<213> Glycine max

[illegible]

<210>	31782
<211>	449
<212>	DNA
<213>	Glycine max

<210>	31783
<211>	383
<212>	DNA
<213>	Glycine max

agcttcatgg tgaatcaaag gtgttttgat gataacaaaa gatgatgaca aagggtgatga 60
caaaaagctc aaagatcaat caaagaacaa ctcaagtgaa tcaaagatca atcaaagaac 120
aactcaagtg aatcaacaac aattcaagag ttcaagataa gaatcaagaa taattcaaga 180

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<223>      unsure at all n locations
<400>      31784
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<223>      unsure at all n locations
<400>      31785
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<212> DNA
<213> Glycine max

<400> 31788

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acgggtagat gatgtgcata tgatctatct acggcttgca cttttaattc gcacatgcat 120
ggacttgta 129

<210> 31789
<211> 222
<212> DNA
<213> Glycine max

<400> 31789

tcgcacccgt ataaaaaacg agaacacttc tttattgtct cttagcgagg gtgagcactt 60
tatcaatcct ggattgaccg agcttacata ctcaaagcat gccactgttg catgaatagc 120
tatgccccat caatgtatga caggacatac tctcatgtct tacacacagc gaagggtcccc 180
ccccctccgc gcccgttttt gaactctaga tataatttac ct 222

<210> 31790
<211> 359
<212> DNA
<213> Glycine max

<400> 31790

tgccgtctca tagtgcaacg ccttaaaccg gcctctgtgc ttctactggg tcacgcggac 60
tttcagaggc ctacagacca catgtaactt tgtaactact ttcaaataca cccacatcat 120
tcttgggcca aggccttaag gtcctctctt cctcaacgaa ttaactagtc cttcaaatgg 180
actacacccg taaaccactt ttgactggcc tccatagtcc ttgcaagcta gggatcacca 240
caccataccc tctgccaat aacatattac tgtctaagga cgacctccct tcacaataga 300
cgaaaccttt gaacaatgga acgccagtag ctccaccata gtttgaagat ctggaggct 359

<210> 31791
<211> 205
<212> DNA
<213> Glycine max

<400> 31791

cctagntgcc gcatccaaca tacacttcga catctactca ttcacctatc tcttctccgc 480
tcaacacgca ccttcattac aatctctctc cg 512

<210> 31794
<211> 275
<212> DNA
<213> Glycine max

<400> 31794

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tttcatggcc ttgtaagtga agaccacac aagcatctga aagaattcca tattgtctgc 120
tccaccatga aaccaccaga tgtccaggag gatcacatat ttctgaaggc ctttctcat 180
tctttatagg gaagtggaaa ggattggcta tattaccttg ctccaaagtc catcacgagc 240
tgggatgacc tcaagagagt attcttaaaa aaaa 275

<210> 31795
<211> 409
<212> DNA
<213> Glycine max

<400> 31795

taacacatgt ttccatgttc aaatcaaata agtggttaaga catagtctcg aaacactggg 60
ttgcctccca ggaacacttc tttaatgtct ttttaagttgg atgtccttgt tatgacttac 120
gccttcactg tttcatcatc cataattctt ttcttctttg taagaaaata cttcatgaat 180
ttagtgtatg ttggtatatg ctctaatagcc ttacaaaaag gaatgttacc tctgtcggtt 240
caaatgttt aagaaacact tgtatttctt ttccttatat ttctttgacg gagcatacac 300
ataaggaaga tgctcaagtg gcggatggct tactacaact ctacctttgc tagtggcttc 360
tttctttgat ttcttcttga cgtaccactc tctcttcaac ttttccagt 409

<210> 31796
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31796

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ctttgctttt attgggtaac gtggactttc gaaggcctag agtcaacatg taactttgtc 120
 actactttca aaaaccaaga gatcattaat ggtccaatgc cttaatgttt ctctcccttc 180
 aaaagaatca aaaggctcgtt caaatggctt aacgccttaa acgagttttg tttgggtcaaa 240
 atatattcttg caaaaaaggg ataaaaacaa cttaacccat gccagttctt cgaagaacta 300
 cgtangtttg atttcgttat cacaattgag gaatacgtan gagcaaggga aacacccttg 360
 tcgaccacaa taaggataaa aata 384

<210> 31797
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31797

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 cttgcaagag ttacaaaatc attgccatgg ctttgtcatt catccacac atgcatttaa 120
 tatgatacaa tttcaacaaa aaagacaacc ttgaatat ttgaaccttca tacaagggtt 180
 gttctgcac ttttggtaat tcataaaact cttcggttc attcctttct gagtggtttt 240
 tgaaccatat cttcatcct atcaacctct acattgaagc aatgggcaact tcattcgat 300
 gctgcctatc aactctaaaa gcatcattaa tcatattttg gataggatnt ttaataatgt 360
 tgtcttgaac tacatttgta tgtgagacat ttcgagtttc ttcacttcta gactcccat 420
 ggtacaacca aaatgtgtac ccta 444

<210> 31798
 <211> 380
 <212> DNA
 <213> Glycine max
 <400> 31798

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 tgcaatggaa aggataacaa gtcggtggta acacactata gggctaaact taatggctct 120
 gctgttacgt tcaaccacag atgagaaaaa aaaactgagt ccaggatgat ggaaagcatc 180
 aaagatatat atatatatat atatatatat atatatatat caccagtatc 240

ataacatgag gcagatagaa actctgtctg ataaatttgg ctttaacaaaa aaagtaataa 300
aataaataaa aactgagaga gaatacggca gatagagaca tctctttttg gacaaagaac 360
ctaccatcta gtctaagtac 380

<210> 31799
<211> 370
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31799

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ttttccttat ggtacagttg agatcaaaag tgactccaca aacaagagct tcaaggtcaa 120
tggacaccga ctttaagtcac tcctcacaaa cccttcttta ttggacgtag tgggtggaaga 180
gacttcctta ctccacccta ctcttctctc accatgactt aaggagttcg cttttcctat 240
accttcttta cttttattac atntgtccga ttctatatga tgggtttaatt gcttttaate 300
ttttaattgt gttacattga ggacaatgtg ttcgttaagt atggagggag gggggagtgt 360
tctgggctgt 370

<210> 31800
<211> 382
<212> DNA
<213> Glycine max
<400> 31800

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tgtcttattg gtttagcctc atcctctaaa tttatccgat gcatacatat ggatcggcta 120
ataccaggaa tgtccgctag ggtccagcct atagccttct tatgcttctt gagaactaat 180
aacaacttct cctcttgctc atcagcaagg gaggcagata taaatactgt taaacttttt 240
ctatcatcca agtaagcata ttttaaattt gatggcagag gtttcaattc tgggtgtgggt 300
ggctagatag tggtagaaag agatgggttc tcagcctgta cctcataaag aaagtcagag 360
gtatatgtac ttcctaaaac at 382

<210> 31801
<211> 439

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31801

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 acggggttatt gccgaaccaa tataaattct tgtgttcgct ttcttcttcc ctacactctc 120
 taattttcgt tgtgcacttt taattatcgc tcttactttt ggttaagttt caattattgt 180
 tctttacttt cttaactctg tagtaaaagc ctaattaaat ctacgcacat taagaagatc 240
 acttttaatt agtcaaggta cattaataat taattcaacc ccccttctta gttattccga 300
 gaccacttga tccaacaatt atgatataata gtgtgcgctt aaactccaaa gagcatacta 360
 ctgacctcag aatggccact tcttgagcaa actcactctc taaggcatca ttcaattgct 420
 ctgatctcag aaccttaac 439

<210> 31802
 <211> 381
 <212> DNA
 <213> Glycine max

 <400> 31802

 agcttcttat aaatagtaga ttaatctatt tcatttatta agattcaatt tgaaaaacat 60
 ttaattttta atttaaagtc caacaaagta aaacttgata tgagaattaa ttgaaaaata 120
 ttatattaat cttgaaaagt ttataagatt tagtaaatat tctatgataa tcttgaatta 180
 tttttaaaat tgaaagtatt gagagaagtt ttaagagaag aaattaatac ttcaatgaaa 240
 atactaaatc atataaaata ttttcttttt taaatatatg cattccttat aaatatcgct 300
 gaaagaaaat taataacttt ctttataaat tattttttaga ggatgtaaca tttatctaag 360
 atcaaaattg ttatgaaata g 381

<210> 31803
 <211> 424
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31803

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atatatatat gtgtgcg

377

<210> 31806
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31806

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caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaattg 120
attataatga tggatggctc aaattctcac aaaggtaaaa tcatcacttt caaattgagc 180
tttcaaaact atcatgacat gtagagaaga atcaaggatt tcaagtcaca aaatgtcaag 240
aactttttatt ttcaaaacat ttaccatttt cttgaacata tcctataatt caaagaanaa 300
catgcaaagt cgtacgtgca cacaaaattg acccaaaata ttaaactgaa aatccgacga 360
aactaacaac attaacaaat taacacaact aacaaatta 399

<210> 31807
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31807

nntgaccctt tgattattcc cttctttttac tctaaactct gctcacagat atgttgatta 60
atatttccat aaattttcat atggtatcat taccttgctc aaattcgtat gagtattgac 120
aaaatgaggg tttgcaaaaa aaaaaaaact aatgcttgct aaataaataa ccagagttgt 180
tatgagactt tttcttttgt cactttgaaa tcaaagtgat ttcaatttca aggtcaaaaa 240
aaciaaatttg aaattttgta ctaagtgtag aataagaagc tntgttctca aaataacaat 300
gtacagtcaa cttaaataaa tttctctgat gtnntgcac tcgtgggaga gtcctaaagc 360
ttgatatgaa ttcaagaaat tctgatgagc ttctattgtg tgacttgaca tgaatgtgtt 420
ctctagacat cattatatca tctcat 446

<210> 31808
<211> 392
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31808

agcttttaggc tattcaattg cttcagattg ttgcacagaa gggcaaaggt ctgtgtggtg 60
gtcgacagag gagcataaac cacaaagtct ggcgacaggt gcaaattttt gattcacggc 120
cagttggggtt accagggttaa ccaaggcatc tagtttacct tcaagcttct tagtctcggc 180
taatggagat gaattcgtgg ctacttcatg cactcctcta atgacaataa catcacttct 240
agtactaaat tgttgggagt tggaagccat cttctgatgg aagcttgctt gtggggcttc 300
tatggaggct ggatctttga gcttcaatgg ggtcctttaa tgggtgattnt ccaccatgga 360
gatgcagtgg aagacaaagg agaagagggtg ag 392

<210> 31809

<211> 456

<212> DNA

<213> Glycine max

<400> 31809

tctctgaagg gcatggttat ttccagtttc cttaaaatac ccaaaaatct cgccaaatga 60
tggtccttct ccttcttggga aggtaccaca ggatattggtta cttccttacc ttcgttttca 120
tccttttcaa tttttttatt ttttttcttt ttcttgggtca ttaaattctt tttgcttgac 180
cattatTTTT tttcttttat cttgattgct ttcacctctc acctcatttt tctcccatca 240
gtaccttctt ttcagcagtt ttctctttgt gcacaatact ctctctctcc tcagcctcca 300
taaacctttt actccttgtc atcacatctt tgaattccgc cttgogattc ttttctgtat 360
ttgctgcaaa actgttggac aacttgtcag ctatctgctt ggccagttgt cccacctgaa 420
tttcaaggat cttcagtgc gactcagtgc ttttat 456

<210> 31810

<211> 395

<212> DNA

<213> Glycine max

<400> 31810

agcttaagac gacgagggtgc ggggaggagc gatctggcaa ggggaagaaac agagttggag 60
gtgtgagaaa gcgaagcttg aacaaattcc agactttgcc tttagattgt tgtgctgtat 120

gaaatttatc cctttggcat tttgatactt gtctccact ctgagattct gttataatta 360
cttcacatta acacaaaaca gaacaagtta taag 394

<210> 31813
<211> 322
<212> DNA
<213> Glycine max

<400> 31813

tacatgcgct agatcacaaa gaagaactta tgatgatctg tagttttatt ggagtgcgtg 60
agataaacta atgccgcata agatgtcaat gcacatagca ctgactctca cttgtcgtat 120
atggagatta tgcgagagac gacattcaga ataccgcttt gaccaattgt tcataataca 180
catggatatc ctctgagagt atgagtctag actgagaaag cacaaatttg attattagtt 240
gtctagaccg aagagcggcg aatgctatat cctcttccat aaatgcaatg agaagcagag 300
ctatactgct aatctacaca tt 322

<210> 31814
<211> 379
<212> DNA
<213> Glycine max

<400> 31814

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accagagaga agatgaaatc cacagacgga atgagaacga tataatcgag gtgatgcact 120
cttgacttac aacactctat gtatagagtt acgacgctgg atgcaatata aggacggtac 180
tatgaagcaa ttagttagtt atgacaacca tgaacaattg tcaataacta actataccaa 240
ctgacacaat gcgcttacta cctacttgag atagtgtact tgaatattgc acttctaattg 300
cagtactcta acataaggta actaatgctt agctatttat cctgaaaagt tgatttgccg 360
taatacactc cgttgtacg 379

<210> 31815
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31815

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catgctatat ggcacacccat gtaatctgac aatctcaata atatataggg aggtcaactt 300
ctccaaggaa aatcttatat taatgggaat attgtgagca aacttgggtca gtccatcaat 360
aataacctag ataaaaatcta aacctctggg ggtcctaagt agtcctacca canaatccat 420
ggaaatacta tcccacttcc ac 442

<210> 31818
<211> 385
<212> DNA
<213> Glycine max

<400> 31818

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ctatacgaga catcttgcca aacaaattca ggttaacgat aactcgctg tgctttttct 120
tccattctat atgtagcaaa gccattgatc cagtcattgtt tgatgagtta gaaaatgagg 180
ccgcaattat aatgtgtcag taggagatgt attttcccc tgctttcttt gacatcatga 240
ttcacttgat tgtgcatctg gtcagagaaa tcaaagtgtg tggtcctgtt catctacggt 300
ggatgtaccc gattgagcga tacatgaaga tcttaaaagg gtatacaaag aatctatatc 360
gtccagaagc atctattgtt gagag 385

<210> 31819
<211> 419
<212> DNA
<213> Glycine max

<400> 31819

ttgataacct tcgatagtga ccagtgaggg ctaacaaacc tctcagctgc tggatattga 60
aacgtgtcag ccactctaca actgactgca ccttaatagc atccatatcc actccttcac 120
cagaaactat atgtcccaac tgctctatct tcaatacacc atcagagcat tcagacaact 180
tatcacaaaa aacattgtct ttcaaacatt tcaatactcc tccagatgca taagggtcca 240
tgccatgtgg aactatatac caatatatca ctcaataacc ataacacata ttgccttaca 300
gcatgctgga taatatggct catcatacac tgaacagaat tcgtagcatt ggtcaaacca 360
aaaggaacta ccaaccactc ataatggcca tgagggagca caaaggctga tcatgtcta 419

<210> 31820
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31820

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 tgtccccaat tcattgggag atgacaaccg aagagctcgc acgacagttc tgcactctct 120
 tgggtcagtc ctatgagaac ccactgagtg tagcagttgc agcaggagtt gaggggttgc 180
 ctatactgtt aaagctggca aatgtaatgg cagcaaagaa gcaggagtgg caggaaatga 240
 agcagttgcc tgtgccagtt gaattgggta aggaatttca gttccattcg atttttgttt 300
 gccctgtgag tagggatcaa ggaagtgaag aanatcctcc aatgctgcta ccatgcttgc 360
 atgtcctttg caagcaatca attatgaagc t 391

<210> 31821
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 31821

tgatgaagcg cgtgcgtagg gcattataag cattacatgg agatcaagac tggtttggtg 60
 ctctggaata atgcagtcag agactcatag gactttcttt gacatttagt agaggatatt 120
 tgaaaaaaaa ttaaaatgtt caaaactgaa ctaataactg taagttaaac cacgggatta 180
 tatatatctt ttaagcaaaa atgttgcacg ttatcctaatt tttgggtgct atagatgtaa 240
 aaagaaaaaaaa aatgaaata ctacttgaaa taatgtttta atatttatta agtttcttat 300
 tactctttta aaataaacca atattgtaat atttatttta accataagct cttgtaattc 360
 tatatttata cataaattat tctcattaca ataaagtaat gtcgctaata taaaattatt 420
 c 421

<210> 31822
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 31822

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aaatagttta tcagttaaac agaaataact atttgtgtct tttaagaaaa ttattgtaaa 120
attaataaat ttatcatata tagtgatttg taattagata ataacgtaaa atgactntat 180
actcctgcat aattgtaagt ttgtaacctt tttttcttat aaactatagt accttttttg 240
taccaagtat cttaagaaat tagtcatttt tttctatgct tgtgatgtgg agaaatggcc 300
accactgggg agaaagagtg gtattttctac tgccccagag acagaaagta caggaaca 358

<210> 31823
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31823

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atgagagaag tccttcccc atcttctact atgaatatta ttgtgatgaa aattatattt 120
ctgataaact agtcaaggct ccccatgggt tagctaaagc agtatcaagt tttaacattt 180
tcaattagtt gattgaaact ttgtaatcag ccatagcaac cgtgagtcgc gatttgccat 240
atttcacagt gatactgcaa acattntaga aacctaattct ctatctaate ttactgtagt 300
taatccatat ctgtggttat ttgaaactct ntaagtatgc actcttgaaa tctcctttta 360
cactataatt agctggatga atatatnctt gccctcttc aacaaattac aaacactctt 420
catctgtcaa cttcaggcca tctactat 448

<210> 31824
<211> 341
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31824

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caagaagagt tgggtctagc cacggccac gagcatagaa tcgcggatga gtatgcccaa 120
gtatatgcgg aaaaagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacc 180

atgtggatgg atcggtttgc tcttaccttg aacgggagtc aagaacttnc ccgattgtta 240
 gccaacgcca aagcgatggc agacacctac ttcgccctcg aagagaatca tgggcttctc 300
 gctattgtca gcatatgata aacttaatgg cccacataat t 341

<210> 31825
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 31825

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 tcatgctcgt gcgcttagcg cacttctgaa ccgcttagcg cgcattagtg aacttcgact 120
 tagcgcgact tttcttggtc agcgaatgga ctgaagcggc gcgcttagcg ggatggccct 180
 tcgctcagtg agcatgcaca actcatcctt ctttcagatt cttctcgcac ttagccagga 240
 atgttgcgct tagcggatgg ctactaagc cattagattg gcttagcgag agggtgaaaa 300
 tcaacacttc acaaactcgt ctaattaacc tgacattgag agaaaatgat tattaacac 360
 acaaaatgga agtactaagt atttattacc tatctctacc cacacataat tacaacacta 420
 caaaataacc ataaattgga ggagtttgat 450

<210> 31826
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31826

agtttaaaga caagagctaa agtaaaaaac acttggttta tacttggtgca ctcaactga 60
 ggtacgtnca gttctccttt acaacctata aaagggttgca tttaatcaag ctgattacaa 120
 gaagtattct gacctgcatt cctgactaca acaagtattc tttaggccac ttttgacaca 180
 caatctcccc ctgagattaa aaacacccaa atattctttg atcattaagc tactcctagc 240
 tttccaaaca attgtttgaa tgaatacaat atttaaactc ctcaaagaga ggatatacac 300
 taagtttgaa tacaatagat aactntgcta aagccaagat tgatacttat tgagttntat 360
 ttttgaacat ccaaca 376

<210> 31827
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31827

ntngccatcc cttggataag tccatttcta tggacataat tgcacaaaa agttcagtat 60
 aaagggaggt ttgaacacca aggtaggttag caaaactacc aagatcgagc aataccattg 120
 caatctttga agattccacc agctgcagct tgaccaggat ttccgtgaga ggccacatcg 180
 atgttgcaact tcaccaaga aggaagaggt ctatgccacg ttacctaaca ataggcggct 240
 tctgggaagg tggcaaattg tgtaaattg ttgcatcata ttgaattggt caatggacga 300
 ccttcatttt ccatgagaca ggttactgaa agagaaaccg aggcattgat cacagagata 360
 atatgtgcgg acaattgana ctgggtattg aatctggcgt tgtttctagc acaccacatt 420
 cccacattg aat 433

<210> 31828
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 31828

agcttggtgg tactatagct gcactaaatt gttgctgtgg taatcaaattg cagatgcaat 60
 gcagtagaag ggggtaaaga caatatatta ctacaattat atgaaattga gtaggtaata 120
 ctaagaacag aatattagta gcatgaccga aaataaaata gccgctgtgt caaataacat 180
 aacaattgtc tcaaatacag gaaaaaaaaa tactccaacg ccatcattag ccgttttgac 240
 ttattgctgt ctttaaaaaa aatggtgccc atttctttcg aattgtggtg atgatgtcga 300
 tgtccaacgg tgtgtcatta gcaaaccact gcaagtattc ataattgtaa gttagtactg 360
 caaatataaa aattcagttc caagtgtact gaagttta 398

<210> 31829
 <211> 459
 <212> DNA
 <213> Glycine max

<400> 31829

tcacctctat ccaatcttga cgaattcaaa catgatcaac acagtgatcc ttgtaagacc 60
 aaataaagga aacatcaact agacttcctc caaatggaca aatcgtatca ataactagcc 120
 ctacttgtgg ctttagctgt tgctattgtt gtcacacgtt atcacaacac acacattccg 180
 acgcagtcac actacggctt ctctcatatg cattttcccc tagatgcaag gggacgcata 240
 ggggagcatg tccagtaaca tacaatatat atttcgtgtg agccatgata cgaatgaaat 300
 aaagtgaaaa aaataagtca ataatcctta ataataaaca attatactta actaagacaa 360
 taaaattaaa aacattacat ttgtctaaaa aaataataaa catgaacaga tttatgaatt 420
 gaaaataaaa aatttaacta agacaaaaat aatacacat 459

<210> 31830
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31830

agcttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60
 tcttctattc ccacattggg aatgcctcta actgcacctt tgtcaatgat tttcttcatg 120
 cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcac ttctttggag 180
 gatagacatg tggaggagta actggtttct tgagggtgcc ataggttagca gttgtccttt 240
 gatctgctgc ccttcattag aacttcactc ttctcatttg tcactaagca ttctgactnt 300
 gtgaagttta cattgaatcc ttcacacac agctgactga tgctgatcaa gttagcagtc 360
 agtcccttca ccagcagtac tctgtccaga ct 392

<210> 31831
 <211> 471
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31831

tagagcaatc tgaactttcc aagtgatcac caaaggcttc tgcacaaaca ttgacactct 60
 ccacctctn tgctttaagc ttttgtgctg cattccctgc ttctcctta taaatctcag 120
 atttattaga gggtgcagca gcacaatcaa gtgaatcatg atgtctctga ccagatgcac 180

tagacctaac tcttcttggg acttggggat gatagctagc atgttgggtct ccgtctcgca 420
 taaacgctga gacaagctcc ttttggacct tgaaca 456

<210> 31834
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 31834

gagcttctcc tctattttcc tatgaatagg gggagaagtg aagggaatat aggttcaccc 60
 ctcttggttaa ttcgagatca cttgaactta gtgaactaaa ttgggtccgt gaagaaaatc 120
 caggccgagg cgcttccgta tcgtatccgt aatgttggtc tgggagattt cgcaagatg 180
 ttcaaccgct cttcgacgtt cttcggtcgg tcgtcgacgt tcttcggtct tcaactggca 240
 agttcccgaa atcgaacttt tcaattcatt ctatgtaccc ttaggggtgc tcatttgta 300
 tcacgtgctt ttattttcat ttcatttact tttcgtaccc ctttttgaca tgctgtagtc 360
 atttacttaa gtgatcttct cggctaataca aaaa 394

<210> 31835
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31835

tattgaatnt atctctatag agtggtacaac aacgagagag atggactagc aaatcaagac 60
 aagcttcatt gtgggagaag gctcatgaac gtaatgctaa gcgtgttcta aatttgataa 120
 tagagatgga aggcttatgg gttaaacttg ggcaatatat gtcaacacgt gcagatgtgc 180
 ttctgctgc ctatatacgt cttttgaagc agttacagga ctctcttctt gctcaccctt 240
 ggaagagttt ttcttcaatt ttttttattt taaaaatatt ctagtttatg ttatggaaga 300
 aaaaatgctt ttaggaaaca atgtacatta tgtggctgta ataaaaagag cccacatat 360
 tctntgagca ttgtagatga ttgtgttca ttaacctact acaacaattc aaagtctttt 420
 ctt 423

<210> 31836

<211> 390
 <212> DNA
 <213> Glycine max

<400> 31836

agcttgtaat tgattaaact gaaacaaaaa tatctctaca agttataaac acttggtgtaa 60
 ttgattacga ttagccttgt aatcaattag aatagagttt tatgcactaa agaaagtttc 120
 taactttaga aacaatcttc ttactcctac atgatgggtgc atgatgtaca tgtgaaaaga 180
 tagagactaa gatgcaacac agaatacaac aatcaatata aatgtcactc aaaagagttg 240
 gtcattgctaa agacaaaact tctgcaagct tcttcaagct ccaagactta gtcttcatgc 300
 tgctgcctat atctctaaca atcttctctt tcttggtttt catgatgcc aacttgaatt 360
 atcatcttag tgcatttgga gagtcttgat 390

<210> 31837
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31837

ntagtgactg tgtgcaatca caaattgtac attgtgtgtc ctcatgata tgtgtctata 60
 gttggcttgg catgaattcc taattgtcat aacatattat tgatggatat gatctacgca 120
 ttctttcttt cttcacattt ttaagccacg ggccaaatag ctatcccaac gtatattatt 180
 tctatcattt tgcgagcctt atgagccaaa cacttgatat tttattggcc actaacctag 240
 acaaaaattt tctaccttac cttcggntag gagagcaatg gtgtttttga tggcgatttc 300
 tatcatttgg tggctaattg gatgggaata cactattctt atgggtatta aaggaaatta 360
 aatatttatc 370

<210> 31838
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 31838

agctttgcaa cccatatctc ttccgcaggc cttctctctt gccaaactcc aggaggataa 60
 gttggaggac cattgccgcc cttaccgacc tcgtcacaca cccatcacca ccaactccact 120

accacacca cctctcttac cttcaccacc caacctggcc tccaccctt cccattccaa 180
 accccaagtt aaacatctaa ccccaaaaga aatggccgc aaacgcgaac aaggcctatg 240
 ctataactgt gacgacaaat aagggcccaa ccatcggtgt cgcgctcatt tctttttgtt 300
 gattgccgac aatcctagca ccactatccc actcgaaacc tatgttacca aaccacctat 360
 cccaccttct tttgaccaa cccatgccct cat 393

<210> 31839
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31839

ntcccacaag tcctaattga cattntaaac tacgattaac tcacttttagc ctccaattac 60
 cactaacccc aaatttagct tttcaaaacc tcacactttt ccactcacat cactaccatt 120
 ctcacattta accctagggt aactctcccc atcaactcta ccagttttct accaacaatt 180
 tcagcacaca aacatcacia agcatcatca taaaacccta aaacagaatc gtagctctac 240
 tacatcaaac atgtcaagtt tagcatgctt ttaacaaatt ccttcacaaa taactaccat 300
 aaggcataaa cctagtagaa ctacccatca tatctccan aaaccaata cccacgaaat 360
 tcatgtgaga agaagtccac ccaaacctta nattcgaagt cccacaacgt 410

<210> 31840
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 31840

agcttatgac aattagaaat tctcgagagc ttccgatgat taattttgat cgtctcgata 60
 tattataagt ctgaatcgga cctacgtgtg aaaagttatg accatttgaa ttttttgaga 120
 gattccggtt tttgaatttc gagcgtctag atatattatg cgctgaatt tgacttgctt 180
 gtgaaagggt ataaccattt gaatttctca agagcttccg ttattcaatt tcgagcttct 240
 ctatatgtga tgcgcctaaa tcggacatcc gggaaaaaag ttatgaccat ttgaaattct 300
 caaaagcttc ggtagttaaa tttcgagcat ctcgatatat tattcgctg aatctgacat 360

ccgtgtaaaa agttatgacc a

381

<210> 31841
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31841

ccttgctgac acgcgagat ttacgtnaac tnttggtgctc acaagatttg tcatactgac 60
atgtgagtcg cgttgacggg cggagatacc ctagtgggta tccgtataaa cattcttttt 120
tgctgtctgt aaaacgaaaa gcctgatagc atgcagagac taacgtcgtc ttctgcgccc 180
ttcgtcaatc gcggccgaca agcccggtga cacgcagaga ttacgtcat tcccgcgctc 240
acacatctgt catactgaca ttgagtcac gctgacggac ggaaataccc aagtggatat 300
ccgtataaac attctttgtt cctgtctgta agacgaaatg cctgatagca cgcagagact 360
aacatcgtct tctgggccct tcgtgaatcg cggccgacaa gcccggtgac acgcgga 417

<210> 31842
<211> 387
<212> DNA
<213> Glycine max

<400> 31842

agcttctaac ttggcttggg gatcttggcc atctttgaaa aactgcatca tgtgtaagag 60
ataatcaaag acataaatta ttgtactct tggtagatga gtgaaaagtg gaaagttgct 120
ggtaaaaaat ggaaaaatac tcacgtagga tggataccac atcattgtag ttgatggaga 180
agccatgcaa gggcaagtta tgatgttata aatccatgtt tatctaccaa cttttctatc 240
ttgaaataat tgctctcgtc aattctctgc caacacatga tacttccatg ttacattat 300
gatctttcta ttgaattttc attcatatgg tatgaaatat tctacttct tgcttaagtg 360
caactaggaa gtacctacaa atatcga 387

<210> 31843
<211> 370
<212> DNA
<213> Glycine max

<400> 31843

tcatacactaa tttacaagag aaataggaat ctatcacaga tttagagagt ggaccggaaa 60
 tttatgagtg tatagataat aaaatctata aatattatac tctaataaat aagtttatta 120
 attacttacg acatattata gcttttttta attgatcata tgttattctc ttcttgacaa 180
 tagattacaa atcattgatg ataattgcta tcgaccgatg agttaatttc gtatgacctt 240
 tccacctaca atacgacaac cttattatac tagaaacaaa atgttacata aaattttata 300
 ttggtgtata atttataata gtcataatgc ctgaaaattt gaaatgaact tttaggacta 360
 ttatatatat 370

<210> 31844
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 31844
 agcttggtat gttcttgtca tatcatacat gttatcctac ttgcatatcc tatcccattg 60
 gataggagta aagtttaaata cactttccgg taattaaaaa taatttttcc tgttttcaaa 120
 ttataattat aataatagta attgtaataa ttataatgat tgttaggatt gggtgatagc 180
 aatatagttt ttaatagtta taattctaata ttaccagaat tactagacaa tattcacctc 240
 actatttccc tatttaaata ccttgtgatt tgattttctgc tattaggaag aaacactaga 300
 tttttttttt taagattgtg gtgagtggtt gatgtagata attgatacca ataaaaatct 360
 tttactatgt caagttttgt 380

<210> 31845
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 31845
 tgtgattgag aagtgccctt gtagatagtc aggaggaaaa ttgatgatcc taaatgggtc 60
 atgggttactt gatgattacc tgtcagtcca tagtaatctc ccagttcagt ccagccaggc 120
 actatagttg gggtctgaag atcttggttg tatttaatac agtgtatctt gtcattacta 180
 tctaggagat gccaagtatg ctctaattca tctttccatc ttacgccaca gtcctcttaa 240
 cttcaccata agactacatt taaagtgaac taatataagc aatattgata gggttatatca 300

<211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31848

agcttgtgca tccaataccc tgatgaggat gtcccatatg ttcttaaaac tggactgatt 60
 catttgcttc caaagtttca tggccttgca ggtgaagacc cgcacaaaca tttgaaagaa 120
 tttcacattg tctgctccac catgaaaccc ccagatgtcc aagaggatca catatttctg 180
 aaggcttttc ctcattcatt agagggagtg gcaaaggact ggctgtatta ccttgcctca 240
 aggtccatca cgagctgnga tgaccttaag agagtattct tagaaaaaat tttccctact 300
 tccaggacca caaccatcag gaaggatatc tcaggtatta gacaactcag tggagagagc 360
 ctgtatgagt actgggagag at 382

<210> 31849
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31849

tcttatccaa ggcttgtctt ggtggtgaag cttcttcttc catggcttat tccctagtgg 60
 atggcgccctc ctctcacctc ttcttcaacc tttgtcattc ttgactccat ttcattgaag 120
 cgcatatcca cttgcatttc caaagtgtca aacctctcac caacaaaggt ttttaagacca 180
 tcaaactttt ccaaaatctt cgaaagaaga gatgaatctt ctcccatgt ctttctcacc 240
 atcattttcta gcacccttct ttatccaaga gccatcatgc tccttaatat aaccaaagga 300
 tgctatgact ctagtgccta taagggaatga tctcttgatt ggaacatacg gttcacaatc 360
 aagaacgatg ttgaagtgtt gaacgaaaag ggtaacaaga tgaggataan gcaatgncgc 420
 attcaatcgc aatgccttat gcatgtgata 450

<210> 31850
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 31850

tctagcctct ttttccgcgt atacttgggc atactcgtcc gcgatcctat gctcgtgagc 360
cgtggctaga cctaactctt cttggtactt g 391

<210> 31853
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31853

ntataagcgc gggttcggga gacaaaggtc aagcgttcgc gatatgcgaa gatgatattc 60
cgagtacttt ggatttggtg cgaccatgcc ctcttgattt ccagctggga aattggcgag 120
tgagggaacg ccccggcatt tacgcaacaa gcataatgta aacctttacg gttttaaaag 180
ctctatagtt gggcctaggc tttagagttt ttccttttgt taaggctttg tgtctttggt 240
tttgaattat aatacaagga tctttcttca tctgttcttg gtctctaccc attctcattc 300
acttgcattg ttacttcttt ttctgaaacg gcagatccga tgacgagtcc cccgaaggta 360
ctaataacctg ggacccgtct atcgacttcg agcaagaaat gaatcanacg gaagatgaag 420
gacatgagga tgtgggactt cccccagaac tagaaag 457

<210> 31854
<211> 399
<212> DNA
<213> Glycine max

<400> 31854

agctttttaca aaaaggttca tcaagtcaag ttgaaatatg gaagtaaccg tcttgcaaga 60
ttggggcaaaa agatgaatcg agtcacatca ctgcttcacg tactgccaaa catatttagg 120
attggtgatg tctttgttac ttccagtttc accttgacaa agatgtcatg gaccatgttg 180
aaaatctaaa ttgattcaac cccatatact gcgtaaaaat tcgcaatact tcgactgtac 240
atcattcgca tgcattcatg cttttcattg gttgcattgc tcattgcatt ctttccttga 300
aaaataaaat aaaataaaat aaaatgaact tatcaaaaag aaaaggacac gctttacggc 360
gcccttaccg aactcgtact agagctagag taatgggtg 399

<210> 31855

<211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31855

tcttcagaag gacgtanatt ntgtgcttga ccagtcttgt agagaggcat ttgaggagct 60
 aaggaggagg cttaccacct ctcccatcat gcagccatcg gattgggagc ttccatttga 120
 gctcatgtgt gatgcctcca attatgcact tgggggttgtt tttccgcaca gagttataga 180
 ctatcacatg tcattgctta cgcctcacgc ctctagatgg agcccaagtt aactcaccac 240
 catcgatacy agcttttttagc tgttggttttt acattagata aatttagatc ttattagctt 300
 ttctcccata ttactgtcta tactaaccat gcagccttga cgtacctatt gaagaagctt 360
 gatgctaaac gtagattgat caggtagatg cttcttcacg agtttgatat tgagatcaga 420
 gacagaagtg gtgcacaaca tgtggtgact gatcat 456

<210> 31856
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 31856

agcttgtcct tgggaaacct tcaaaatgtg ttttggtgaa gtaggttccc ctccaacacc 60
 aaccttaaga gcacaacgag atctgcaata tttatgataa acatatgcat ctacaaccac 120
 ccttttgaaa tttttataaa cagaaagagt gagggccttg agatctcgaa tgtgggaagg 180
 ttgaagagac caattgaatt gggagatgtc tcatatgaac atggatttaa taaggtgggt 240
 atggaataga ttccatgctc attgatgtca tctttgtctc caatctgaat gtttagaatt 300
 tcacttggat tggtgactct tgaattagcc tcgtctaggg cttcctccat agatggataa 360
 gtatcatcct caaagtcaaa gggagttaaa aactaa 396

<210> 31857
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31857

tgacaatatt cacaagacta gtggtgagct tagagttcan aatgaagtga tgtcttccac 60
tctcaaggag ctcaaaacct ctaataaaga gcttaaagat caacatgata aacttgagaa 120
gaagcatgat gagctcatca ctagacataa ttctctaaag gacaaataca ccacattaaa 180
aattgactat gatagtctcg tggttgctaa tgaactcgct cttgagacac atgatctact 240
aaccatgtgt taagtgtgat atagctacat catgtgatga cttgatcatt gaaagcattg 300
agcaagggtc tagtagcaaa ggcaagagtg tggttgagtc aagcaaccat gatgattatg 360
ccaagattaa gagtgagaat gagaagcttg caaatgagaa caagaagcta acagggttga 420
tggctcttga gaagcaacca acanatgagt cactcattga aga 463

<210> 31858
<211> 378
<212> DNA
<213> Glycine max

<400> 31858
agcttaaaag aataatttct agaaagttat ccgtttctaa aacgcacttg aacacatctg 60
aattgaagta gatgaaaact gaactaattt tgtaagaaag tttttcactg caaaattata 120
aaatccttta tttgtatctt aagaaattgg ttattctaatt cttagaaacg tcatttttaa 180
aaataatttc acaaaaataaa tataaaattt tcatgtttgc ccaaaatttg tcatattgat 240
tatcatcttc agagttgggt ctcattgtga acattaaact taatcaaact aaattacaca 300
taatttatta tgttttatgt aatatttatc caaatttgat aatgtgattt tcagggttag 360
tgtaatttct caagtcaa 378

<210> 31859
<211> 158
<212> DNA
<213> Glycine max

<400> 31859
caacatgata ttaataaaca tgtaaatgaa ccaaaactat gccatggctt atgaaacttc 60
acggattgct caagaagggg acaactatta tatctaaaca tgcattctaa atcccggata 120
tttggcaggt ggttaccacc gtcgccataa gtgacatt 158

<210> 31860

<211> 389
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31860

 agctttgcgg atttggctct cgccgacaaa aggatcgaag cggatctgaa aataggcaaa 60
 tttgatcatc ctgctttgat gaatgagaaa actggggcaa atgaagagga tgagaatgat 120
 gaaggaatcc atgttgaggc tgccattcct acatggccaa atttcccatc atcccaacaa 180
 tgtcattact tagccaatat cagcccttct cattacctac cacccggtca tccacaaagg 240
 ctatcccaaa atcatccaca aagtttgctg accgcgcatt caatgccaaa ggcgaaacca 300
 naacaccaac caagagatga agtttgcagc gaacaatcct atagaattca cccaattcc 360
 tgtgtactat gctaacttng ctccatata 389

<210> 31861
 <211> 382
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31861

 tgcagtcatt agaagaaaaa gaacatgtga ttagaagtat gactgacaat gttagtcagt 60
 ttgtcagatt gattgtgaaa gaatgcattg actgtattcc agtgagagtg tgatccttaa 120
 attttaagag aaacaactat catttagtac tgatttttgc atgattctct gaagtatgga 180
 ctaaattgcat gaattgagga tgatgaaggc catgttttga ttgtggtact actttagcca 240
 aaagctgacc ttgtgcttgg atgatttata ccttgacccc agtttgagct gaatgaatga 300
 ttgattgatt gaaccttgag cctatacagt cttagacttc tgctaccttg tcttaagttt 360
 taggagagca tcatccatag aa 382

<210> 31862
 <211> 391
 <212> DNA
 <213> Glycine max

 <400> 31862

 agcttctact tatgtggtat ggcgggcttc cttcactttg ttgtctcaac cgcgagcttt 60

gaccaccgcc cttccttccc gtgatgcttc tctttacatc tgcttgagtg ggcttatagc 120
 ctaaaccata cttccacga tttcctttgg catttatcag gctagttatg tcaccgctgt 180
 ctttgcctaa acccattccg ggttcgtaac cgttcccaa cataactcgg gccatcatta 240
 ctgctgcac ggacaggcaa gcttgcccag agaaggagtc cacggaggaa atgcttacca 300
 cctcacaaga ctggaaagcg gtttctaata actcctctgc ggcttccaca taaggcatag 360
 aggatgggca gctcaccaag atgtcttct c 391

<210> 31863
 <211> 451
 <212> DNA
 <213> Glycine max

<400> 31863

tataaactct atacaagaat gaagctctta taccacttgt tataccagtg gcctcaataa 60
 cttagaggg ataggctcaa aatgcagaag aagtagcaat caatttaaaa atgttcttta 120
 aatggacaaa attgattgca acaaaataaa tgagataagg gaagagagaa tgcaaacaca 180
 atttttatac tggtttggca aagtccgtgc ctacgtccag tactcaagta cccacttgag 240
 atttccactc cctttgtaaa aatccgttta caaagtctga accacacagg gacaacccat 300
 cccttggtgt caggaatcat tacaacttaa gagaccctta gtcccttaat cagtctcttt 360
 gaatgagaag aaagaaagaa gaattctctc ttgaagagaa ggatattaca attgaagtcc 420
 atggagaaac tcttaataga tttgcaagta t 451

<210> 31864
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31864

agcttgcttc cattttcagt catcaaagtc acctccccta tgccaacaat cttgcttggtg 60
 acatggttgc ccatcttcac cataccaaaa tcctcttttt gatatgacaa aaaaaaate 120
 cttcatgagg agtaacaagg aaaaatactc cagagtcaat tatccatata caataatcag 180
 atgcaatatt aaaataatth tcattaccga taiaaaaaaa cattttcatc atttaatgac 240
 agagaagtag tggttccacc tttattcttc ttctttgggt caattcaatt agcatggata 300

gttcagtct tctgatcttt cttcaagaat ctaccctcaa acttcttatg ggctgactnt 360
ccgtaatagt agaaactaaa gccttt 386

<210> 31865
<211> 423
<212> DNA
<213> Glycine max

<400> 31865

taagccattg tgtaaaaaaa gcacatgaac agttttatac ccaacatgcc tcctcctcac 60
acaaaagtct ttgaacttgg agtgtaaagt atgcacaagc ccaccttgac tagtgtaaaa 120
attcaatttt ttattcaa atatgggagca gtattaatca aactataaag gtcagagagt 180
tggcaacacc atgccattaa ctaaatatcc caaaagctta cagtgttggc gaaagctcat 240
gatagtttta tctggcagta gacatacctc agtcctcaag ttcccaaaac acaagggaaa 300
ccgtaaaaat gaataaataa agacactcag acacctattc catgcttatg aaaatatttc 360
tagcatctct gctattgcaa aagtattgct acaaacggct tgcatgcaca tcatccaaac 420
cta 423

<210> 31866
<211> 382
<212> DNA
<213> Glycine max

<400> 31866

agcttggttt gaggtactta cccgttgaag actgaagaaa acgattaacg aacgatgaat 60
cttgaaaaac ggtcgagaat ctttgcgtaa ttactcacgg aaatgttacg gaaacgttac 120
ggaagcgctt cggcttggat tttcttcacg gaactaattt tcctcagcta tttcgagaga 180
gagagaagtg cctaaggggc tgaacccttt tctacttcac ttctccacct atttatagaa 240
aattagggga gaagcttgcc acccagctca cccaggcgag caaggttgct tcctccagaa 300
gcaacagcct tctggaggaa tcttctggag ggcccaagtg ggcttgattg ttatttgca 360
ccccattttt actaaataca cc 382

<210> 31867
<211> 437

<212> DNA
 <213> Glycine max
 <400> 31867

tgacttaact cagtattctt tgcctacca agtcactctt ggctctaaaa aaatcaacaa 60
 gatttgatgg aaggttgac attcgctaatt attacatctt cttacacatg gatattcttc 120
 tcagtatttt acttttttct ctcacgattt agaaggtggt tcgagagctt actatctata 180
 tagagattta caaaattttt tacagaacag aatagttcat atcttgatct tccaaacttc 240
 tctatatata gccttcatct tcaagtatat gtagcctcac aacgggtgga tttttcactc 300
 tgttcttcgc ctgaattctt gaggcgattg gagcttgctt catatatatg tcccttctca 360
 tgcgaagtgc atgctgatac gtctgtgagt cattgacttc aacaagtgtg tgacttcttt 420
 catcatagca catctat 437

<210> 31868
 <211> 376
 <212> DNA
 <213> Glycine max
 <400> 31868

agcttctgat gagctctaatt cagtattttg atttatgagc gacttacatc aaatctcgtt 60
 atatggatca tcatcatagc aattacacat gtaaccacac cgtcgtcgaa ccatatgatg 120
 ctaccaattt gtaattcagt taattctttt tactgtaatt gaaaattcat aattaccaca 180
 atgatattct taattctatg atgctatatt attttctgat ctattgtaac agttgtagag 240
 gttatttatt agcttgactt gctgaataat attcattcga ttatctctca taattgggtt 300
 gaattctcct taatttgatc ttttacagga ctctttgttc ttaattataa gctttggatc 360
 tttacatata tatcat 376

<210> 31869
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31869

ntgagatagc ttctggcctg agaatcaatt gtgctaagag ccaactcgga gcaattggtc 60

agtctgaaca gtggatcaga tgtgctgctg atttcttgaa ctgtggacca ctacagcttc 120
 tttctgcta cctagggctg cctataggtg ttaatccgac aaggaaggtg gtgtgggaac 180
 ctattatcaa taaattcgag gctagattga acaaattggag gcaccaaca tatcatggct 240
 ggtagaatca ccctaactaa tgctgtatta acagctctgc ccttgctnta tatgtctttt 300
 ttcacggccc cttcagcaat gattaacaag ctactacca ttcacagaaa gtttcttt 358

<210> 31870
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 31870

tatgcatgca tataataatt gtcttatgca ttcttaagtg ttgtatgtgg acgttatcta 60
 gttctcgat ttaataagaa tggatcacc attactttgt ttttactatc atgttcaccc 120
 gtagtatgta agattgatat ccctaaactat gattatgaaa tcaaatttct ctatggcacc 180
 agatgggatt ttcacatgga cctattacat atcttgactt tgaccggccg ggtatcgact 240
 tcctctttgt atggcattca caatgcggtt tatacatatg caagttgctt aaaactaaga 300
 ctattgctta acaaaatttg tacttgaagt atttgacata atatttctta taaaaatata 360
 tttgcttggt gcaaaattat ctttaaataa taaaaagat agcttcacgt caccaatcaa 420
 ca 422

<210> 31871
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 31871

agcttgagaa gaatttgaga attactcaat aggttcttga actaatcgaa atttattaat 60
 cgggttccta attaaataat ttttttcaat tgaattctta aacttctatt tgtttttttag 120
 ttagggttct gtcatcaact ccgttaagga aattccatat gaaacctttt ttttttcacg 180
 aactgactcc agtttcactt cctgaaactt tagagcatgc ttaggacaaa aactttggag 240
 atttcatata ttttttttag taaaatagtt gttctgtgtg taactattta ttgcacatcc 300
 caagttgact ctctccaatt ctctcacatt gttatctttt tctattttcc ttttcataca 360

<210> 31872
 <211> 514
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31872

cgccacgcgc gcgcgtggac ngttganatt ggatgccant tactatacac gcgacactat 60
 acaataactcg cgcttacaca ttatnagatg tcctatgcag ccactctgag ttctttctat 120
 gcacgctgat ttgaaggaat gtttcctatg cgactaatta cactgctaac cgtgatatta 180
 tcacggataa caattctaata attcctaata aaagtgcagtg ttgagcactt acattcttat 240
 tctagaccat caattatgat tcatgaacca cgattccttg aatagaatcc ccacactcgc 300
 acaaattaat gtatactata tatgtaacgt gtctattgat gaatatgtat gtcaatctgc 360
 accagctgtg agattgagat gcaattgaac atcgtttgag ctacattggc attatcgagg 420
 cgagttcatg ctcataaggt agtgagactt gtcattacaa actgacgaga tttcttcgct 480
 cattcctgac ctactccaac ccatcatgcc ttcn 514

<210> 31873
 <211> 387
 <212> DNA
 <213> Glycine max
 <400> 31873

agcttgtggt atgccctggc cttgaaatga ggtaacctcc actcccctaa tcattcttaa 60
 cattcatgta caataaagaa aagacttgac atcgagagta tttaagcacc tgaacgaaca 120
 aacaaatttc ttgttggaac gaattatggc ataacctctg gaaagatgaa tcccagacta 180
 agagtgaagt gaattcatat tgatttggaa gggtagttga aatgagaatg agatacttgg 240
 gtacaattca tcagataaaa caaaacaagg cttcatgaat tatgccaccc acaaacatat 300
 cacaatttat aaagcaatgc tatcatttaa atgatatcaa tatgcggcag tgattcatat 360
 gatcacaatt ttcaaagaa tctttca 387

<210> 31874
 <211> 357

<212> DNA
<213> Glycine max

<400> 31874

ctatacttaa ctatctctta ttttactaat gacatcaatc tttattcggt ttttaactac 60
caaatttcat ctttgatttc ttttctttgt tgttgctagt aatcaactac tgcccttatac 120
tttattagta tgcgacgagt gctagacaca gagtaccaga cttgtgtata tgatgctgct 180
gtcttaattt ttggtaaagt actcgcgtat atgttgtttg acatacatca attcacgaac 240
caacacgctt tgggaaacca ttattgatac atgcacgtgc tccgcgcact ttacctaccc 300
ataaataata tacatttgat ttacatgatc gatataataa tacttaacta attatgt 357

<210> 31875
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31875

agctttacag atatttatct tctttgattc ttgagctatg catttagagc taaactgtta 60
cttggagttg gttaggccca ataactgcc aaggtacagt agttaaaagtc acagaaaaaa 120
gtatgaattt gtagcataaa aagggttacc ggtagtacct gtaacaattc agaataattt 180
taagatgttt ggtctgcgga agggcagcaa tgatgctcat gttttaaaac atccttgctc 240
atgaaaataa ttctaagtaa atgatgtttg gtatgcanaa ccttctgaaa ttgagctgca 300
accatatnaa aatgttctat ttacactat acatatacgg caaacatgac gacataaatt 360
catcagttca caatattaca ctatagctc 389

<210> 31876
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31876

ntgcaataaa agacaaatga aataaacact tttttagacg acaattcttt ataaaaaaaa 60
attgggaaca aaattcatct gttaaataac ttatctgaca aataattcag acgtctacac 120
ccatgaataa aatttgggtt tataaaataa ttatagagta ttacatgga ttcagatagc 180

tgaagagagc cccanagaag ttaaaagtat catgaattca cagttttaga agaaaacaaa 240
 tgtgaaattg tacaaatgta cttgcatgat gtaagcctgg aattaataag tcgtgaattc 300
 ccgataaaaag caatgcccac agatcctgtt acaaatttag ctgtacataa actaatgttt 360
 aaaacaattt agaataagca tgcattctgcc aggatagcaa gtagctaatac tgcattct 417

<210> 31877
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 31877

agcttgaatg caaactggat gcattgggta acttggtaac ccagctggcc ttgaatcaga 60
 aatctgtacc tgtcacaagg gtttgtgggt tgtgctcctc tgctgaccac catacagaac 120
 tttgcccttc catgcagcaa cctggagcaa ttgagcaacc tgaagcttat gctgcaaaca 180
 tttacaatag acctcctcaa cctcagcagc aaaatcaacc acaacagaac aattatgacc 240
 tctccagcaa cagatacaac cctggatgga ggaatcacc aatctcagat ggctagccct 300
 caacaacaac aacaacagcc tgctccttcc ttccaaaatg ctgctggccc aagcagacca 360
 tacattcctc caccaatcca acaacaacaa cag 393

<210> 31878
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31878

actacgtaca actttntaag tgactgggtt tgaagaaatt cccaaaagtc acaactttta 60
 agagtttttg ttcaacactt gctttgtcaa gaaaagttca ttgggcaaaa acttgtgtta 120
 ttctatTTTT cttcctctcc tccattctta caaaaagctt ttcaaaagac ctattcttgg 180
 tgactgtttt caagagaagg tcttcttgggt tacaacact gaacacaagg gaccaacgct 240
 ccttgggttc attgcaagaa gcaggacttg cttcttgggt cgactggac acaaaagcaa 300
 acgtcttttg ggttcattgc aagaagtggg tataacttct tggttgttat cattggacac 360
 aagggaccaa cgttccttgn ggttcattgc aagaagtggg aataacttct tgattgtaat 420

<210> 31879
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 31879

agcttcggtg atggatgctt gctgtggag cttctatgga agctggatct ttgagctcca 60
 atgaagtcct tcaatggtga tttccacca tggagatgca tcggatggct aaggagaaga 120
 ggagaggggt ggcaccatcc actaggaat aagccatgga ataaggagct tcaccacca 180
 taatgtgcca tggataagaa gcttctagag gatgctttaa tggaggagaa gatagagaga 240
 acggggggagc ccaaattga aggaattaaa caggagagacc gctgaacttt tcacgtgcct 300
 cataagaatt ttcttcatta aaggtacaac gagtgttaca catgcctcta tttatagaat 360
 a 361

<210> 31880
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31880

ttggtttgac tgagataatc cagtaagaaa aatcttggtc gtgcaaagt aagattgaga 60
 gattttggat gagagagaga aaagtgaatg tttatgcaa aatgcttggg cacgtctgag 120
 tgtactgatg ttacacttca ctaagctatt tttgactctc tcgcttagcg aaatgttgtg 180
 ctaagcaaac tcgagagacg ttcggtttct caaggcctgt cgcttagcga acccttgccg 240
 taagctatct tattattatt attatttttt acaaatttcg cagctacgct tagcaccgga 300
 tcgaaccgnt tagggagatc tgcagatcag aaaacctaca actctcgcta agccgggctc 360
 tgggcccact tagctaaaat catgcattat gagtgcagag gagtgggcgt tgagcggaca 420

<210> 31881
 <211> 548
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 31881

ctctcccgcc atcctcctcc ttcccacact cttgctaata atatcaatca tatactatca 60
aattnnnnnn accgcggggg tttgattgca tcatgaccat caaggcgaat tccactcggt 120
accccgagat cctctacagt cgacccgcgg cctgcatgct tategtccac agcagcaaca 180
tctcgagcat cctcatgcat aacattcaat gatgccaaaa cttctttaaa ttcagacact 240
acccaatttt cttcaacggt cgaggagtca tcatgagaat cacaccttaa ccacacatct 300
gcaattatct ctacaatata atgcgtcaaa cgatgatgac tcatcttttc cccaacctat 360
gcatgccatc ttaccgcttc tcatacttct tccctttcat attaccataa cgcttcttga 420
agcacataag acaatttgcg tccccctca gccaccact ttagagaaat ttgagtcttt 480
gaaacttaat ataaatatcc caacatcttg acaaccaa ataatcctca aatcttcctt 540
tcactacc 548

<210> 31882
<211> 222
<212> DNA
<213> Glycine max

<400> 31882

cttcgtaaat ctttataatg acctaaacaa tttccaacgt cgtggactga caggctaaca 60
atagttgtca agcaacatgg ttctgctcaa tgccaaacaa accctactat gtttggttaag 120
cactctctgg atgcaaagac acccctgctt attgttcatg cagatgatac tcataattct 180
acgacacgat tatgatcaaa taaattatct gaagaatctt ct 222

<210> 31883
<211> 387
<212> DNA
<213> Glycine max

<400> 31883

tgcttctaaa ttaaattgtc ccagaaacgt atcctataaa caaagaacgt tctcttctg 60
tgtgatagat gttctcgttt attttcaact gttgtgatct ctctccttt ttttttgctc 120
tatgtctctc cttttctccc tcgattttct tgatctttat ttatagtaat tcctaacaac 180
ttatctaata atttcactgc acatttttta tcttatttta tcatatatat acctataaga 240

taaatcta attttatctt ctttcattta tcttatattc ttctcagatc aaccactatg 300
 ctcaataata gcacataaac taaatatatt attttatctt atctaaatca tatatatata 360
 ttctatccta ccaaataat tatttta 387

<210> 31884
 <211> 331
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31884

tgaactatag ntactccgct tgaatgggtga ttttnccttt cttaaaaata attcttgtgt 60
 tttgaaacgg gttggctgtc tagaggccag ttgacgctgt gtttcattct gattccttca 120
 gcgatgtgca tgtacgcgtt aatcctgttt atgtccacac tcttccttta gctctttcaa 180
 ctgggggtcca ccatgcatcc tttttgccac ccttagtgga agttcctatc atatcatctt 240
 tgatcccttt atatcataac tgggatccag ttcttaaaat attnctttta cgccccctt 300
 catttacttg ctgacagatt ttatttgatg a 331

<210> 31885
 <211> 381
 <212> DNA
 <213> Glycine max
 <400> 31885

tagcttggag ggatttatgg ggaccgggtg ttgagaggaa cgaggataag ggctacgtgg 60
 gagtacgtga gctcagctga aggtgggcaa ctgggggatgg tggatttttg tgtgatttgt 120
 ggatgtggag agtcgacttg caccatcgcc cgatcgccac ctattaccac atatgacggg 180
 taccataa tctacaagc ttgaagtga aaagtgtgga agagtcagtc ttctacttt 240
 tattcggtga ccacagagt gtacatggag atatgtccgc gcgtcacgca cttgtggac 300
 gtcaagtgg gtgctatttc ccaaaaccaa gcttgaccaa tccacacca acctcgatcat 360
 agtcagtcag tgagaacctg t 381

<210> 31886
 <211> 308
 <212> DNA
 <213> Glycine max

653707-307430

<223> unsure at all n locations
<400> 31886

ttccacgaag aggtctanaa gagacgcctc ttcggaaggg tccagtgaca cctccgagtt 60
cgatagccac cgtttctgga gcgtacagca ccatcagcgc ttccaggtca tcaaacgatg 120
gtcgtttcac atagagaggg gcattccgct cacggaggat gagtctacag actttcacga 180
agagatagct cgcacacatt ggacgtccct ggtgactccc atggctaacc ttgaccata 240
gatagtcttg gagttctatg ctaatgcccc cccaccacg aggcgtgcga gacaatgcgt 300
tatgggtg 308

<210> 31887
<211> 387
<212> DNA
<213> Glycine max

<400> 31887

agcttgggat ctaaactttg cggtccttga gcggcattga ggtggtgact tgggaaccct 60
agacagggag tcgaagagtg agagcacaag agagttgagg gaaaaatgaa atattaaaaa 120
tagtgaaaaa tattttaaga tggttttgta taaaccatct taaaattgca aaactgtcgt 180
aaagctattg cattttattta caaaaatgtc actagacaca tttccactc ctgaaaatca 240
attgatctac atttttaatt ttaaactaac tataactcct ttctatttta agggagcact 300
atcatcaatt aattttatct accacaaacc atttaaatat cagaaaatca tagagaatat 360
tattttatat ttattaaatt aaatag 387

<210> 31888
<211> 407
<212> DNA
<213> Glycine max

<400> 31888

tcatggtaaa tcaagattga ttcaaggagt tttgatgata acaaagatga tgacaaaaag 60
ctcataagtc aagatcactt catgataaca aagatgatga tattcacgaa tgagtttaag 120
attgagtcaa gaacacttta aagatcaaga ggacacttga tttcaagaat caagaatcaa 180
gattcaagat tcaagattca agaataatca agatcaagat tcaagactca tcgattcaat 240

aatcaagaga agacttactt aagataagcc caccagttt ttcaaccatt gagtatcaca 300
 agaagttttc acaaaatcat taccaaagag ttttactctc tggtaatcga ttaccagact 360
 atagtagtcg attaccagtg gttttaaaac gttaagactt tcacaat 407

<210> 31889
 <211> 383
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31889

agcttgctta tggggcttct atggaggctg gatctttgag ctttaatgag gtcctttaat 60
 ggtgattttc cacaatggag aatcatcgga agacaaagga gaagagggtga gaggaggcgc 120
 catccactan ggaataagcc atggaagaag gagcttcacc accaagatga gccttgata 180
 agaagcttgg aaggatgctt caatggagga aaagaaagag ggagagaaaag agagagggggg 240
 gtgcacgaaa tggaaggaat aaaagaggga gcacgcggaa ctttaagtat gtctcacaag 300
 actctcattc atcaaagtta caacaagtgt tacacatgct tctatttata gactacgtag 360
 cttccttgag aagctctctt gag 383

<210> 31890
 <211> 418
 <212> DNA
 <213> Glycine max
 <400> 31890

taagagaaac ctactcttag cttcaaattt gaaacaccta ttctagcatg cagtaaaact 60
 cttgcatatg tcgtaacaat gcgtaaaaag catatgaaat agaataagg agagatacaa 120
 cctttacatt ctaatgcaag aacaacttga ttgaatggac ctctcttgat ctcaagtgtg 180
 tttacaactc actaatcaca caatcttgag agaaactttg ctttagaaat ctctaagaaa 240
 caaaaaccga agtttgtgag ttgtaaaagt tccccacaga ttgttgactc gagaacacaa 300
 ggaggggtaca tgtagagaag atagttataa cgggttgta tcaattatta cgtgaacgta 360
 atcaattgca ttctccattt aatcgattaa tgtgtccttc ccaaatacta gagaacat 418

<210> 31891
 <211> 389

<212> DNA
<213> Glycine max

<400> 31891

agcttataag aacaaaattg ccttaatcat ttccaaatat gcatgtgaat taggacgcat 60
caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaattg 120
gttataatga tggatggctc aaattctcac aaaggtaaaa tcatcacttt caaattgagc 180
tttcaaaaact atcatgacat gtagagaaga atcaaggatt tcaagtcaca aaatgtcaag 240
aactttttatt ttcaaaacaa ttacccattt cttgacatat cctataatta aagaaaaaca 300
tgcaaagtcg tacgtgcaca cgaaattgac ccaaaatatt aaactgaaaa tctgacgaaa 360
ctaacaacat taacaaatta acacaacta 389

<210> 31892
<211> 235
<212> DNA
<213> Glycine max

<400> 31892

tatacccatt ctttaacata tctcgagctg ccatcataga ggtatcatgc aaacgtgggt 60
gtattgaacg agaactccaca tatacactat ctacaatttg caacgctgga aacgatttat 120
ctaattgactc ctgtattgct ctaacataat gcattgaaga tggacacctt actattatgt 180
aataactaagc tgaaactatc acaagctgac ccccatcaca aattttaatt tctta 235

<210> 31893
<211> 382
<212> DNA
<213> Glycine max

<400> 31893

agcttttggg atcaattacg agcgtctcga tatactacgg gacataatcg gacatgcggg 60
taaaaagtta ttgttatttg aatttgctca tacgttctgt tttcaattac gatcgctca 120
atatattatg ggattcatcc ggacatccga gtaaaaattt attgccattt gaatttgcta 180
cgagcttccg atttcaatta cgagcgtctt gatatacaac gaataacaat ccgacatccg 240
agtaaaaagt tattgtcggtt agaatatgcc tccagcttct gtttcaatca cgagcgtatt 300
gatataattac gggactcaat ccgacatccg agtaaatagt tattgccatt tgaatttgct 360

catagcttct gttctcaatt ac

382

<210> 31894
<211> 383
<212> DNA
<213> Glycine max

<400> 31894

ttccttgtcc cttgatatat ttgagggact tatggtcatt atgaatgaca aattccttgg 60
gataaacgca gcgttgccat gtattcaaag cccgcactaa agtatacaac tccttatcat 120
aagtccaata gttaaaggta ggaccactta cattttcaca taaaataagt cattagatgg 180
ccttcttgca ttcacacagt cccaatccca acatttgaag catcaaactc aatctcaaaa 240
gattcctgaa cagttggtaa cccaccatc ggggcattcc tatcttttgc ttaagaaaat 300
tgaaagcttc ttcttgtcta tattccatt tgaaaacaac atttctcttg accaccttat 360
tgagaggtgc tgcaatgtgc cta 383

<210> 31895
<211> 393
<212> DNA
<213> Glycine max

<400> 31895

agctttgatc taccaccacc gcagccaccg tcattttaat tttctattat ttaatattac 60
tagtacttct ctttctagcc gtgtatttgg ctatattaag acatttggat aatttagtat 120
ttctttatct gcatggtttg aatgaacaat tatgaattat attatatgac tatgtgtttc 180
atatttttta attattcata tatgttttat ttgaatatta tgaatgactt tttggattat 240
aagacattct atgaagtatt atctttctaa gattgatgaa tgacaagtta tctttttgat 300
tgttttctat tcttttgtat aacatttatg tatggttttt atatttcttg cttttctaag 360
tttgatgaat ggtaaatta tcttgtttta ttg 393

<210> 31896
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 31896

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tttatacaag aattctgctc tgataccact tgttggatgt cgcaacctac ccttcggcgg 120
gagggcgaag cgtgactcgt gggatgcgtg ttccacaaaa ggaatacgcg cggagtcgcc 180
accaacgttt atttgaggaa aatgtcggaa aaaccggaaa atatgcgatc tacgaacttt 240
taagtгааag gttcgggagt tgtatttacg cacggngaac gattagcacc ccaacgtccg 300
tccaagga cgacagcctt taatcgaatg tgcaaacatg actctgattc tcttatgttc 360
cctctttatg tctttatatc ctntataccc tttttatatt 400

<210> 31897

<211> 395

<212> DNA

<213> Glycine max

<400> 31897

agcttgccctg tccgatgcag tagtaatgat ggcccagatt atgttgggga acggttacga 60
acccggaatg ggtttaggga aagacaacgg cggcatgact aacctgataa atgccaaagg 120
aaatcgtggg aagtatgggt taggctataa acccactcag gcggatataa agagaagcat 180
cgtgggaaga aagagcgggt gtcaaagctc gcggttgagg caagaaagtg aaggaagccc 240
gccctgccac ataagtagaa gctttataag cgcgggtctg ggaccgaagg tcaagtgtcg 300
cgatatacga agatgatgtt ccgagtacat tggatttggg acgaccatgc cctcctgatt 360
tccagctggg aaattggcga gtggaggaac gcccc 395

<210> 31898

<211> 421

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31898

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cattaaatcc agatttggcc ttccaactct caaagtctca ctctttttcc actcataaca 120
ctacattatc actttctaac cctaggttaa ctctaccctt catccctagc agttttccat 180
ccacaatttc agcacataaa catcacaagc atcatcataa aaaccctaaa actgaatggg 240

taagcttgac tcacaccaaa catggcaagt tcaacacgct tcaacaaatc tcttccaatt 300
aactatcaca aagcataaac caagtaaaac taccatcat atctnccaaa gcccataacc 360
cacgaanatt taggtgagaa gaagtctacc caaacctgag atnttgaggt cccacacgta 420
g 421

<210> 31899
<211> 387
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 31899

agcttctcaa ggaggtgagc ttagttatga gaggggtgtg tgtagctaag ctctagcttc 60
tcaaggaagt tttctcaaag aagcttctca aggaagtttt ctcaagaaag cttctcaagg 120
aagctaccta gtctataaat agaagcatgt gtaacacttg ttgtaactct gatgaatgag 180
agtcttgatga gacacaactc anagttcaac ttctctccct tttctctcct tcaatttcgt 240
gctccccctc cctctttctc tcctcttttc tttntcttcc ggaagcatcc tcccaagctt 300
cttatgcaag gctcatcttg gtggtgaagc tccttcttcc atggcttatt ccttaatgga 360
tggcgctcc tctcacctcc tttcctt 387

<210> 31900
<211> 410
<212> DNA
<213> Glycine max
<400> 31900

tgagatgagg aagtgtagaa ggggtgaaact tcctgctttt atttgttgac cacagagtga 60
tacctggaga tatgtcgcgg gggtcaggag accttgggga cgtcagggtg ggtgctattg 120
cccaaaacca agcttgacca atcccgaccc aaccgggca tagtcggtca gtgagaacct 180
gtgatgtacc taaacaggcg agctcctggc agtcaacaga taaaaggaac aaagaccaca 240
aagcaaggag gcttgtggtg gctggccagc tgtgcacttg attgatatgt gcatatggcc 300
tctggtaatc gattaccaag ggtgggtaat cgattacaag gcttaaaaat gaagatagga 360
ggctaagatg gtctctggta atcgattacc aagggatgta atcgattacc 410

agctttggag ttccaagtg ccaactcgtc ttcttcttta gtccagcctt cttctggctt 60
 caattcttca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120
 gacagctttc cagggttctgc tatccactga tttagaggaag gccaccattc ttgctttcca 180
 atattcatag ttgcttccat cgagaattgg tggctctgttc actgggtccgc cttctttctc 240
 catgttcac cagaatttatc tccttagatc tcaactatgct atcccagagcg tcgctctgat 300
 accaattgaa attctgatac cacgggacag atgtcgtacc ggatgtcacg acatcacgct 360
 tcagaacatg 370

<210> 31904
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 31904

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 ccgattgagc tcctgtaata tatcgagacg ctcgaaattg aaaacggaag ctctaagaag 120
 agtcaaacga cactaactct tgactcggat gtccgattga gtctcgtaat ataccgagac 180
 cctcgtaatt gaaaacaaac gctctgagta aattcatacg acaataactt ttcactcggg 240
 tttccgattg agtgccatcg gatatcgaga cgctcgtaac gcacacggaa gctctgcaca 300
 agtnaaacga caataatttt taactcggat ctatgatgga gccctttaat atatcaagac 360
 gctcgaaatt gataacggaa gctctatgaa aagtcaaacg accataacta ctgactctga 420
 t 421

<210> 31905
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 31905

ttgcttcaag aaaaggccca aactcccctt caaaatctaa tttcaggctt aaatagggtgg 60
 ctttgttcgt gcttgcggtgc ttagcacaat tttgaaccgc ttagcgctca ttagtggtgatt 120
 ttggcttagc gcgtgctttt ctgctcagc ggatggactg aagcgggtgcg cttcgctgga 180
 tgacccttcg cttagggcaa atgcatagct catccttctt ccagattctt cctcgcgctc 240

agcaatggag ggtgtgataa tgggggtatgg aagtgtagta gtttgagtgg agaagctntc 360
aatctcaaaa agatcagaac ttg 383

<210> 31911
<211> 405
<212> DNA
<213> Glycine max

<400> 31911

gtaggaagtt tgtttttccg aggtctccac ccaaacatgt tatacatgct gcttaatttg 60
ttgccgggac taagaatgct tctccaaata tatataatat ctcaaggaaac aaggctcttt 120
caagtatttg cgtcaacctt tgtactaaaa gttacattat ctaatatata tatatatata 180
tacatatata tatatatata tatatatata tatatatata tatatatata tatatatata 240
tatatatata tatatatata tataatacgc cccccccct ataccgcgac atatatgcga 300
ttgtgcgatt tattcacatg tgtggcatat caatgctccg gagacactgc gagagaaaac 360
acccgatcct cgcattacgt ctatgtattg cgactgacac gaggc 405

<210> 31912
<211> 364
<212> DNA
<213> Glycine max

<400> 31912

agcttcaaca tcagaccact tccaggggtgc tggaactact tcacatggac ttgatggggc 60
ctatgcaagc tgaaagcctt ggaggaaaga tgtatgccta tgttggttgat gatgatttct 120
ccagagttac ctgcgtcatc tttatcagag agaaatcaga cacctttgaa gtattcaaag 180
agttgagtct aagacttcaa agagaaaaag actgcgtcat caagagaatt aggagtgacc 240
atggcataga gtttgaaaac ggcaagttta togatcctgc acattgaacg catcactcat 300
gagttctctg caaccatcac accacctcaa aatggcatag ttgaaaggaa aaacaggact 360
ttgc 364

<210> 31913
<211> 366
<212> DNA
<213> Glycine max

<400> 31913

tgatataaac tgacgaaaag aaagcccttg tgaacgtttt ggacatgata gctaataaaa 60
taatacatga cttgaaagtc tcggattcta aaacttatcc gttgtagaac gaataggggt 120
gaataacgac ggaaaaactt cacggatttg ctcacagaaa cgtcttgga acacctcaac 180
ttggatatcc ttcattgaaa cacttttatt tcacccaaaa cagctgatat gcatagacta 240
ctgtgttagg gatattagga acgacattgc tcccctactc atttgatccc ggggatgacg 300
ttgctgttca tttttgccag gcgatatggg ttgactactc tagaaacatg cccgtcttta 360
tatatc 366

<210> 31914

<211> 386

<212> DNA

<213> Glycine max

<400> 31914

agcttctctca tgggtggctta ttgatgtgat taagaataaa aaattctttg tgttctattg 60
cacctgcgaa ttatagtaat gtacgaagag gtatcaacac acctcttgac tcatagcatg 120
ttaatagtta gagccaaagt atgggtgttg attaggtagt aacgcagggt atacaagtct 180
taaagctcta gacagagtga aagttttgca tctcccacca tacctattaa ctattattgt 240
taaatcggtt tcaatattaa cttgaaatga ttgtcccaca gtgcgcaccg cttatgttta 300
ttgaataatt gattcagtag caaaatgtca tgcacaaagc tattcttgtc aaaagggtccc 360
atgacagata atttttaaac ttctat 386

<210> 31915

<211> 376

<212> DNA

<213> Glycine max

<400> 31915

agctttatct tcacagaaat cgtgtgattt ttttttctct cggcgagacg attgtgccta 60
agaaaatctc gagtagttga catgcgttgc ggttcacgcc gacgggaacg ggtgacaacc 120
agaggattac tcccgtctcg atggaggcta ttagcggctt aatcgaactg tcttgtcatg 180
gctgtaccgc ggtaaataaa agattcttct ctgaagattc gaatcctact gatgaactta 240

<210> 31918
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31918

tgaaaaaac cactccgttc aggggatttt cttcctgcac cagctatttt tcttctagat 60
 ccaacagtga gagagaaatt tcaaaaacac cattccttaa gacggatctg taatgggtctt 120
 atggaatgtc aatccgtttg tctatacata atttttaaaa atgtatttta caaattaatt 180
 taaaattaat agctcatgta gaattcgaac ctatgacttt aagggttatta acacaacact 240
 ctaatgccaa taagccaatt atattataaa ataattacat tgttttatgt aacactaaaa 300
 tttctaattg atatttaatt cacatgtaag tntatataat aatttttgtg ataattttga 360
 tctcataatt aattctttta catatataaa tttttattaa acgtataatt tttatt 416

<210> 31919
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 31919

agcttgacct ttgtggctat tgccatgaat ttgcgggtga acaaaagata tggctagtgtg 60
 tatatggatc tagaaattag aaaaaccata taaaataggt tacgaaagga ctctagtagc 120
 tatcttacga ttatattttg aaataggaaa ctaatttgac tgcacagctc atgttatttc 180
 gtgtgacttc agtccgagta gaatgttaat gagctctttt ggctgttat ctttctatta 240
 atattgtcgg ttgtttcttg gtacaacaat ggctggcctt acggcccggc gatttacaga 300
 ggatagccgt ccatgatcca tgatccatga tgaagcagtt at 342

<210> 31920
 <211> 327
 <212> DNA
 <213> Glycine max

<400> 31920

tattaggttc tggatatatt agttcaatgc tataacaacc caggagcct tgcgtgatcg 60
 tttttttaat agcttgattt gaaccatgtc tgagtttgta atccggacta tctaattgtac 120

aaattagagc acctaataatt aagtgacatt tattaattaa gcattacctc cttttctttg 180
acattaatga ggcgactact attaacctcc cattaaatgg ttaaacaaga gtgagtgacc 240
attacacaac attgtagtat ccatcaatta ccctaacgcc tcctccatgg aaactcttac 300
aatgtgtttt taagttactc tttatgt 327

<210> 31921
<211> 385
<212> DNA
<213> Glycine max

<400> 31921
agcttgtgca ttcaatatcc tgatgagggg gttccatatt ttctaaagac tagactaata 60
catttgctgc ccaagtttca tggctcttga ggtgaagatc ctcataagca tcttaaggag 120
ttccatattg tttgttccac catgaagccc cctgatgtcc aagaagatca tatctttcta 180
aaggcttttc ctcatctctt ggagggagtg acaaaagatt ggctatacta ctttgctctc 240
aggteccattt tcagctggga tgaccttaag aggggtgttct ggagaaattc cccctgcatc 300
taggaccact gccatcagaa aagatatctc aggcattcagg caacttagtg gagagagctt 360
gtatgagtac tgggaaagat tcaag 385

<210> 31922
<211> 417
<212> DNA
<213> Glycine max

<400> 31922
tatacttacg gcctgcctcc ggacttcacc ccccggtcca ccccggaaga tttaagccaa 60
gcccctactt ttgaggggca actcccacct tatgaagact atcccgggca agacgatggg 120
gaaggagata cccatcttgg cccctgctc cacctcaaag atcaatcccc gtatgaacta 180
ccccagccga acatagtctg ccataatccc gcctcaccga cgcccgtaaa agaattctgtt 240
cccttcgcgg aagatagggg aaagattgag gcgccgaaga gaggttgagg gcgtcgaggg 300
cctcggaat tacctattct cggatttggg agatttatgt gttgtgcca acatcgatcat 360
ccctcccaag ttcaaagtac caaacttga taagtacaaa gggacgacat gtccaaa 417

<210> 31923
 <211> 371
 <212> DNA
 <213> Glycine max

<400> 31923

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 acatatcgag acgctcgaaa ttgaatgttg aacttttgag ctaattcaaa cgacaataaa 120
 atttttctcg gatgtctggt tgagtcccg agcatatcga gacgctcgaa attgaatggt 180
 gaacctctta gctaattcaa acgacaataa cttttttcac ggatgtctga tagagtcccg 240
 taacatatcg agacgctcga aattgaatgt tgaagcttca gccaatcaa acgacaataa 300
 cttttttctc agatgtctga ttgagtcccg taacatatcg agacgctcga aattgaatgt 360
 tgaagctctg a 371

<210> 31924
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31924

taaacattca atttcgagcg tctcgatata ttacaggact caatcaaaca tccgagaaaa 60
 aagttactgt cgtttgaatc tgctcagagg ttaaaccattc aatttcgagc gtctcgatat 120
 gttacgggac tcaatcagag atccaagtaa aaagttattg tcgtttgaat tgtcttagag 180
 cttcaacatt caatttcgag cgtctcgata tgttacggga ctcaatgaga catccgagta 240
 aaaagttatt gtcgtttgaa ttgggtcaga gcnttaacac ccaatttcga gcgtctcgta 300
 tatgacggga ctnaatcaga catccgagta aaaagttatt gtcgtttgaa ttgggtcaga 360
 gcttcaacat tcaatttcga gcgtctcgat atattactgg actcaatcag acatccgaga 420
 aaaaag 426

<210> 31925
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 31925

tagcttgtgg cacgctgggc gagcacatct ctggctgac ctcttctagg atttcccaac 60
acgctaagcg agctatgtgc cttgcttagc ggatgtcact cgctaagcgc atatgcctcg 120
cttagcgaga caccagcggc aagaaccttt tcttcttttg gcctgaaatt gaagtggttt 180
caacattaat tcacaaaatg ggagtatcta ctatataaaa tcaaaactaaa catgaaaata 240
tgtacaattc ctacaaaaag aatcataaat tgggggaaag cggctaattt catgaactat 300
tcaatacaaa agttagtcgt aaataacgac taacagtata caaagcacac tcatagttaa 360
gtcattgaag gggatcttta cataaagatt g 391

<210> 31926
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31926

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atcgtgagat cagatagagg tgggagtact atggtagata cacagaagat ggacaagcac 120
caggttcatt tgcgaaattt cttcaagaac atgagattgt tgccaatac actatgcctg 180
attctccgga tcaaaatggt gtggcagaac gaagaaatcg aaccttatta gacatggtga 240
gaagcatgag gagtaatgta aagctttctc ccctttgtgg attgatcgt taagacggat 300
gcgtatatat taaactgagt tccaaccaag gctgtctcac agacaccttt tgagttattc 360
aacggttgga aaccatgttt gcgacatata cgcgtatacg gatgcccgtc tg 412

<210> 31927
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31927

agcttgaatc ccttcttttt ggcagcatcc taaaccagta ggcgttgatt cactttatcg 60
acaactattt ttatatcagt ggcccttgag atatgtagac aaagagggtta ggcaatgctt 120
gatctttcaa gtacatttgt ttatgcaatt taccaaggga tgagcgggtct tcttgagaga 180
gattgagatc aactggatgc actggtaaga gtttggtgat tagcatccac acagatgcac 240

<213> Glycine max
 <400> 31930

gtgcgaaagg cttgtcgcgtg gagctgaccc atcaattgta ctaactcttt cagactggcg 60
 attgctaggg tcttaatctt gacttgatag aacctctttt taagccaagg cgtctaactc 120
 gatcccatgt tttactaaag tggaataaaa accaatgtga gtcaagactc tgaaacctat 180
 cacaggtgaa atggatgaat gcatgaagaa atgcgtatgg cacagatgca ttttacggat 240
 acgaaagccc gggaaattat gtgcttctac atacaacatt cgcgcggata gcgcctgatg 300
 catgcatata agaaggtgac atggaccttc catcttctcg tgacaatgtg acgtgatcaa 360
 gacgcaaccc gtgcgtgatg acatgatgca gatgc 395

<210> 31931
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 31931

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 tggctcctatt gctgtgtcca tcaactcattt tcaactaaaa attctgtaga agtgtgcagc 120
 ttatgctggt ctttgctgat gtatttggtt agacaaaaag cctaagcatc cttttgcccg 180
 agatttgctt tgtaatagga atgtcaaagtg tgcgcatctta ggctctcttt tgtacattac 240
 ttataactgt gttaagagtg tttccttggt tccacgacat ctttatectt tttagttttt 300
 ccccatatct ctccattttt ctctttctct atttaatcta atcatgcaag gaggctaata 360
 attgacatgt aatcaagttt c 381

<210> 31932
 <211> 293
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31932

gaactataga gaactctagc ttacaacattc aataatgagc gtctcgttgt agcacaggta 60
 ttcgatctta catncgagac ccaagtatct cggagtgagg attgcacaat cgatgcccat 120
 tcattatcct gcgatttaag tttgtacacg agtacacata gggcaaaaac aggtataaag 180

ttattgatat gagcagtac agagagaccc tctccctct tgagggcgaa cagacggggc 240
atcgagcata ctctgatggc tgctgacgac gtttctgaca tatgtgatgg tgc 293

<210> 31933
<211> 122
<212> DNA
<213> Glycine max

<400> 31933

cgtattctag cttggttctg gaataatcat caaaaaatg caaaattaaa caacacaggt 60
actcgcgaa gaacgttctt ccgcaggaat ggaaagctct cccgtggaag aacctttctt 120
cc 122

<210> 31934
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31934

ctaaacacca ttttctatt acttcggtaa cattataaag ccaaagaacg cggaaattag 60
cataaagcct ctaataaaac aactctcatc atctctaagt ttgacttctt acaatactct 120
agtacatatc catattaagt tgggttatat taatagttac ctccagtcgt aaaaataaag 180
tcttatgaaa catatacaaa tactcggtgt ataatcgata tggatcatatt tcaatctatg 240
tgaagagtgc aagaagattg taacaccacc ccaccacttg ctctctaat gtgattgatg 300
ggggaccctc ccagctagct atcttagtag gatcaagcta tactcgaaga tataacgggt 360
acaccatacg tgaaagcctc gtacttgata aaccn 395

<210> 31935
<211> 337
<212> DNA
<213> Glycine max

<400> 31935

tagcttgccc tgtacatcaa tgtatatatt ctcccaaata gtcttgcaac aaaaaagtt 60
gagtattttc ttacatatta tgtgcctata ttgttgcgct caactgggct atggaaaaaa 120

taagttgctt gatgagatat actcgtagag atggatgaaa attatatcaa ctattaatta 180
 aaatttaaat atatttctta tctttataat atagcatttt tgtgtttcta atccatgtaa 240
 agtttttttt ttgtctttgg caaattatga ttctctctct acacactctc cgacaagctg 300
 taaaattatt atctaataca tgtgaagaac attaaag 337

<210> 31936
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 31936

atgttgattt gggaaggag tacgaggaat ggcgaataat ttaagcccct caaatgctct 60
 aacagtgacg catcgatata caaactcagt tatcagaaat tcattatgct ggggccatga 120
 atccattatc caactgactc gaatgtgata gcacccgctt ctgcttagac tcaggcgata 180
 acaaatgaac ggtcttcacc ccgaattagg ttatcagtca acacctcctt gaggctgagt 240
 tactccacac attttaactc cctcctaac gctgaagcct taactttact ggtagcaaca 300
 gagataaatt tcactctcaa taccatctta tgaaaaatgc actgagagct actactcaca 360
 acaccacccc ccacaatatc actcacctag cccctaa 397

<210> 31937
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31937

agcttgaaga aaaaaggcca gtaagtaatg tataaattaa catagtgtga aagatgagaa 60
 aaattaatct taaccattaa ttaatcaacc cctatattat aaatgactac cattatttgg 120
 tacgaattga gacgaaaaag aattacaaat catgtcaa at catttattta atctatacta 180
 tcatttatgt ctatttctaa attgaattat caataataa ttntattcta ttagtacatg 240
 tgccatttat tctaaaatta aaattaataa ataatttgta aactaaatt tatcatagta 300
 aataatatac accaattatc aaacgtgtaa gtgttaccta agaagtcctt ttctccatcc 360
 ataagaataa agtaaaggcc tatcggacat ataaa 395

<210> 31938
 <211> 416
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31938

tcaagaaaaa gatggcctca gcaaattcct tatttccata aggaaattct atcaacagac 60
 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120
 aggcaataga tctaaatatac tgggaagcca tagaaatagg gccttatata cccaccacag 180
 tagaaagagt ttcaatagat ggtagttcat caagtgaag cataaccata gaaaaaccta 240
 gagatagatg gtctgaagag gatagaaaac gagtacacac aacctaaaag ccaacacata 300
 ataacatctg ncctaggaat ggatgaatat ttcagagttt caaattgcaa gagtgtctaag 360
 gaaatgtggg acactcttcg attaacacat gaaggaacta cagatgttaa aagatc 416

<210> 31939
 <211> 366
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31939

agcttgttct agtccaatgg gatggcctgg cacaagagga cactacatgg gagccgtcgg 60
 atacactact ccggtcttac aaccttggcg acaaagatgg tttggctgac ggaggggtgat 120
 gatagcaata catatatctt ggaatgggaa gagcataaca gctacataga attggaccat 180
 agcaggccct gaagacattc cagagtaccc acacgcttca atgactgtgt ttgacgttgt 240
 taagcaagta ctaatatcta ctttgttatg ccattatct attccactat ccctgncttt 300
 acctagttat tataataaaa gagaatacat gcagtcttga ctctgttagc actgtgagcc 360
 ataagc 366

<210> 31940
 <211> 346
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31940

taagaagata cgagtgcaaa ggtaagcaaa actccagcca catattatta agatgaaaaa 60
 ataatgtatt ntttaatagt gcacaccagt tcaagaaatt gtacttgaaa attcagaaat 120
 tcctgttgaa acatttgac caaaatactg caaataccaa tttcctttac ggattgcctg 180
 cggtcctcct caagcctttg attcattgaa tgactttttt tcacttcatt tggcaatacg 240
 agaaagactg ctacttatgc atgttgattt gattanatcc tctacatttc aatactggct 300
 ggtacaatac atttaaccgg tccttgaatt tatattttat aaccaa 346

<210> 31941
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31941

agcttgcatt cactaaattg ttgcaagcat ttggaaaatt tggcaagcaa ttcctaaatg 60
 ggaatattca aaatcagaaa gcataaggaa aatttcacat gcaatcccac aatctaggaa 120
 acaaccatat aattatttaa gggaaaacct tccatagaca acaattcaga accttaaadc 180
 tacacactaa ataaaaaggt aaagaaaaaa caaacaaga aaacactgag gtacatcatg 240
 caagtctega taatttaaag actcagctct gaattgagac gactgacact gatcgagatt 300
 ccatectana aactcattag cacactggag tgtgaccaca ttagaagggtg acaggtcgat 360
 ctagacaccg taacaaattn tttccatcat 390

<210> 31942
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 31942

tatgtcctcc atagattgca tatacagttc tttnttcctt aaggtttggt gggaaaggta 60
 gccgaaggag tggtgaaaaa ttactcaatg cttttttgta ctaaattgat atacatttct 120
 tataaaatgt aggtttgttc tatatgcctc tccaatgaaa aggacttggt ctttggttgt 180
 ggacacatgg tgagttcttc caaacgccat tccttttttt tttttttttc atattgccat 240
 acacatgata actatgaagt tattcttacg caaactgcag agactgtgga tcaagttatc 300

gaagtgtcct atatgccgtg aacagatcac aaaccatatt aagctatttc ctgngtgatt 360
atgggccagt ttgtttaaac ttatttgttt aaaaaagttc ttattttaat aaaataa 417

<210> 31943
<211> 390
<212> DNA
<213> Glycine max

<400> 31943

agcttgacta ataatgagta tcgctcacat catgagaaat ctaatcaatt ggtgagggtt 60
gggtcgggga caaaacgtac gcccagtgcc tgaaaaattc gcatgggcat gcgcaagctc 120
tcttagcacg acgtttgatt ttagatgcca aacaaacaac ctgccactaa agatgacatg 180
tcttcttctt ctcattcccg caaaacgacg ccgttcattc atgggaccat cctactaatg 240
tacatgcctt tcagaatttt aaattggctt aattataaca tcatcagaat ttattattta 300
agttttattt tggtaaattt tatcacttta aatttataat tctataaatt ttattactta 360
aatttttttc acaaatttta ttattttaat 390

<210> 31944
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31944

tgtgatcaac ttgccttaat tctatttggt ggaccgttgg ttttggacat taatatttga 60
gcatgaataa aatgtaggtc tcttttaagc ccaatataag cttagccac aaaaagtatg 120
tgcaaattgg gctttccatg atcttagagg taataactct cacatatccc aatattccat 180
gatcactgcc aaaattcgga aaaaagtgca tagttaattt cagctacctt tgctaaatac 240
aaaatcaatg atatccttag gtttttggac taatcatatg aaaaccaatg acaatacttg 300
gtagaggcga agaaggcaaa gatcgcgtc cagactgtaa gtttgtgatg aaacctaata 360
ggagacagan attgngtttc gtttcaaacc taaggttttg gatttaggac aaaaga 416

<210> 31945
<211> 383
<212> DNA
<213> Glycine max

tgtaagatat accaccccat tgactattct aatgtcattg taagactgtg cacctttggc 180
 agtagatagc atcattctaa ggtaaaatag tctacctgct gaaggcgga cccatatgag 240
 tcttcctatt gtattccctt attttcttgg atgctagnac ttcccgcgga cgaataaaca 300
 aatcttgaga tatattgatg atatgtaaga tcccgcccat aagaatatat ttcgtagaa 360
 tgcacccacg ctgtgaacat ggattatttg a 391

<210> 31948
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 31948

tctaacttaa tattcgtatt ggagtatatg tatgagatga aatctcacat cgaataaaaa 60
 taaaagaagt agctatccta taatggagaa taaaattgct aaatctagat tttaacgctt 120
 tgggttaaag tatgatgtca cattcataga gtgaatggtt taaccgccac ctatagacat 180
 gtggatcttt ggtattgaaa gactttccga ttagtgagct cattcaaattc tgtatgatga 240
 agttctatgg aggactattg gatattca 268

<210> 31949
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 31949

agcttaacta tttatggatt ttcccacca tccattctat agtccatttc accattagcc 60
 tccaccaaca acctccaaca ctaggttgaa gaccttctta gcaccccaa cttacgtgcc 120
 tactcacatg caacaccatt cattaatgca tgtatgctat gatcattcaa ataaaaatca 180
 ttgtatcaca ctattaacat attcattcac catcatcaat ataattcatt tcatcaacag 240
 ctcaatccat tatatattaa ttcaattcat catacatatc gccattcaac atacaattta 300
 gcattcatat gttgttcaat tccacatcaa ttcattcttc atatcattct caccatccat 360
 gaactctcaa atagttcatc tacacctcat ga 392

<210> 31950
 <211> 376

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31950

 tcttatncaa ggctcatctt ggtggtgaag ctccttcttc tatggcttat tccttaatgg 60
 atggcgctc ctctcacctc ctttccttg tttccgctg catctccatg gtggaaaacc 120
 accattaaag gacccattg aagctcaaag atccagctc catagaagcc ccacaagcaa 180
 gcttccatca actactacct gcgctaagt cacttccaat gactttaaaa caaaatgatg 240
 ttggagttaa gcacatcctt tnttgtaac ccccttgaa agctccgta cagaatgaat 300
 ctggggctta gcgtaggatg gcacacttag cgcagctatc ataaatttc acagagagga 360
 agtggcgctt agcgca 376

<210> 31951
 <211> 383
 <212> DNA
 <213> Glycine max

 <400> 31951

 tagctttact cttatttatg tcctcgaaaa gccgcttaaa tcaccgaaca aagcatgtcc 60
 tttttcaaag ccaacgattt tttttattga catcactaca attaggtaat agtaataaag 120
 acttgatctc tcactccaca aaattgtcac aaatttgaca tatataaggc acattcctag 180
 caaaattcaa aaaatagcgc tgttttacag aaatagcact ctagctaaag aaaggaattg 240
 aaacttgaat atcaggtttt gattatcttt ttgacccccg atcgctcatc atagaaagcc 300
 aaaatgtatt tatgttgta ttcattttcc aaaatgaaaa aaatctatta atctagatgt 360
 agttattaat tttccatact atg 383

<210> 31952
 <211> 204
 <212> DNA
 <213> Glycine max

 <400> 31952

 ttgcaaatcg aattacactt ggacccttat agacttatca attaatatga gagctatggt 60
 gcgcccgttg gtttataaga ttaactatat tggcgatggc tacgctgaat gatatcacgc 120

tggacttgta atgatggtgt atgctataac ggtaagatat gccaatattg catgattact 180
gccagatgtg agactaacgt gcat 204

<210> 31953
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31953

agctttgatg atatggtctt caccgacaaa aggatcaaag tgggtctaaa aagaggcaaa 60
tctgatcatc atgctttgat caatgccaaa aaaaaaaaaa caagggcaaa tgaagagggt 120
gagaatgagg gataagccca tgctgtgact gccattccta tacagccaag tttcccacca 180
accaacaat gtcattactc agccaataac aaaccttctc cttaccacc acccagatat 240
ccacaacggc cattcctaaa tcaaccacaa agtcgtctac cgcactccaa tgacgaacac 300
canctttaga acaaacaaa acaccaacca agaatgaat tatgcagcaa aatagcctgt 360
agaattcacc ccaatt 376

<210> 31954
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31954

tcaagaataa tggacttagc acacttctta tttctataag gaaattcaat caatagacct 60
ccaatcttta atggagaggg ttaccactac tggaaaaccc gaatgcaaat ttttattgag 120
gcaatacact taaatatgtg gcaagtcata aaaatagggc cttatatacc caccacagtt 180
gaaagaacca caatatatgg aagcacaaca agtggaagca caacaataga aaaacctaca 240
gatagatggt ctgaagagga taaaagacga gccactataa tttaaaagcc aaaacataat 300
tacatttgac ctgngaagtg atgaatattt caaggtttca aattataaga gtgctaagga 360
aacgtgggac actctacatg taacacatga aggcaaca gatg 404

<210> 31955
<211> 269
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31955

agcttgtagc aatgtaanaa acatattctt cgaccttggt aatccttgac tccatctcat 60
tgaatcgcat gtccacttgt aactccaagg tattaacact ttcagcaaca aaggtttgaa 120
gaccatcaaa cctgtccaaa atcttttgaa caaaaaagga atcttctcca ccatgttagt 180
gtcctttcttc atcgatgggt tgagcatcct ttttcacca agagccatca tgctctttac 240
gggtaccaa ggatgcaatt actgcagta 269

<210> 31956

<211> 319

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31956

tgcttacgat ggatgtatct tcaccgtaca catatatatt atatcctgct gagagtgtat 60
gtaattccga tagaataaat ggccaatcat catttttagct tctacagtat gcaaattggt 120
gatgatttaa ttcttaataa aaagaacact ctgatttata ttctccccgt ataaacacca 180
taaccattac atcttatcta taagccaatg ataagattcc ttcttaaacc tttatcactt 240
agtgttcaat tgatttttat gaaaccocat tcctaatac cccnttatga atattatgat 300
gtaatgacca atgatccca 319

<210> 31957

<211> 356

<212> DNA

<213> Glycine max

<400> 31957

tctagcttgg aggtaatttc ttgaaagaaa cattgtaatc tcagttgctc tttcaatctc 60
taactcaaaa atatcattct cttctcccaa acatgactca tgtgtgcata gattcattgg 120
atagatacac gtgtgctaca gctccttgct tttgcaattt cgaaatctac ttcaaggtag 180
gggggttctt ttctttctca tgtttattgc gtgacgatgg agctcacacc catgttgagg 240
gtcataaata attgatttac ggttttagaa aacgccccgc taagtctca ctgtataaat 300

tcattgtgcta ttcaaagatt tgaaaaaact ttttaatccc atcttgattg atcttttctt 300
cattgttgaa tcttgagtct tgaatctaga tcttgattct tgagatcttg aatcttgaat 360
c 361

<210> 31961
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31961

tgcttctata gagaagattc atccttggat ctaaagctat cttatcatca gaagaaacat 60
taccacaata aggaatttaa cattgaaagc atcagaacta tgaatatgac tcgattttgc 120
tagcaataag ctagtgtgat taatgagtgg gtaaagatc tttactcata atagctcaga 180
caaaatcgtc aacaacaaag tccactgatt ggcgcttctg gtaagcttgt aactcgtaat 240
ttttagttga aattgtcaat tctacacatg caatccacat ctctcaacac actcttggat 300
gagccttnca aggattgtgt tgccttatct aacttttctt ncttttccag tgataaggta 360
aagctaaaaa attgagtctc ccaatgtttg atataagttc tgtaagacca tctttaat 418

<210> 31962
<211> 385
<212> DNA
<213> Glycine max

<400> 31962

agcttggttt atggtactta cccgttgaag atcgaagaac gatgaataac gaatgacgaa 60
cgtcgaagaa cggttgaaac ctttgcgaaa ttcttcacgg aaaacgttat ggaaacgttt 120
ctgaagcgcc tcggcttaga ttttcttcac ggaaacaatt tttccaagct aattcgaaag 180
agagagaagt gcctaagggg ctgaaccatt ttcttcttca cttcctcccc tatttatagc 240
acaatagggg agatgcttgc cgcccagctt gcccaggccg ccacgttgct cctccagata 300
caacagtctt ctggaggaat cttctggagg gcccaagtgg gcttggttgc tatttgcacc 360
cccatttcta ctaagtacac ccccc 385

<210> 31963

<211> 415
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31963

tntagccaaa tggacttacc ttgaattaat tcctttgata gcccttttga gccttggttc 60
 cctttccttg ttttgaagct cactacaagc ctcaagtga aaaccatgat atcaccatat 120
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gggttttgtt 180
 tcattggata acttgttctg ttggctatac ttcattgatgt attttgggcc atacttgatg 240
 tacattgtat attgggttaa tggtggacat gctactgcaa cggtgtttct ccaggatata 300
 gagtaaaaaa aatgaaaaaa aaagcaataa agttgagtga ataagatctt aaatggcaca 360
 agaatgatga gactcttggc tctactctct atgcttaaat tttatcttct tttta 415

<210> 31964
 <211> 389
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 31964

agcttacaac atatcaattt cttccttttc actaatgaat tattcaatat aaatggttct 60
 ataggctagc taactcaa atcacacattc ttgggacact aacttggtcta tagttgaggg 120
 tgcattgttc ctatggccat agtggcatat tctaccttag gaaaatgtaa agtgcacttg 180
 ttgatcatta gcctaaatct cttgatgaaa tctaatacaa gctcatcaac caactacttg 240
 agattcatta tatctactat tgcaaccttt gactgttgct atacaaaaga tcatggaaca 300
 cttttncata ttgcttaat tttaaataaa atttggtgga aggaagaat accaagtga 360
 attgtgttcc tgtaaggat aataagaac 389

<210> 31965
 <211> 415
 <212> DNA
 <213> Glycine max

 <400> 31965

tcttcttctc catcgcgctc aagaccgtga caactctctt tttcttctcc atcgccacct 60

tacctaggta cgtttcgtct aagctctatt gttctattga atacctaggt ctgtttgggg 120
aactcgtggt taaccaagg acctttgttt gtttctgcta caaggattgg ggaactcttg 180
gtgacctgag gtacgtttcg tgctcgtggtc actgggtgctt acaggggtctc attttgattg 240
aggaaagtcg tgctcacttt gcagttcttt gaatgctccc tgtctgttgt aaaactgggt 300
agcgtagtgt agtgtagtgt agcattgttc atttggtattg aacaattctg gtcttttttt 360
tatgtttttc cctcctatgc attgatgtca tgtatccatt gaaagaggca atact 415

<210> 31966
<211> 253
<212> DNA
<213> Glycine max

<400> 31966

tagcttgtcg ctggagctgt cccattaact gtcctaactt ttttagactg gtgatcccta 60
tgctcttgac cttgactaga tagaacctct tttaaacgaa ggcatttgac ttgatctcat 120
ggtttactaa agtgaaacaa aatctcgcgc gaatcaaac tctgacatct attatgggtg 180
caatggatga atgcatgaac aaatgcatat aacacagatg caatttatga atactggagc 240
ccgggaaatt gtc 253

<210> 31967
<211> 184
<212> DNA
<213> Glycine max

<400> 31967

gtttgttcgt agcggacgta cggatgactt tcggatcaag ttgatctgta aaaagcttac 60
ggatcaactt gatccggaag gatgttacag atcaagttga tccgtaagat acggatttga 120
tccgtaacat ttttccggat caagttgatc cgcaagctcc ggatccactt gatccgttag 180
tgta 184

<210> 31968
<211> 378
<212> DNA
<213> Glycine max

<400> 31968

5055707-90713150

tagcttatgc tgcaaatt cacaatagac ctgctcaacc tcagcagcaa aatcaatcac 60
agcagaacaa ttatgacctc tccagcaaca gatacaatcc cggatggagg aatcaccccta 120
atatcagatg gtctagccct caacaacaac aacagcagcc tacaccttcc ttccaaaatg 180
ttactggctc aagcagacca tacattcctc caccaatcca acaacagcaa cagccccaga 240
aacaacaaac agttgaggct cctccgcaac ctttccccac caactttcac gcacatgatt 300
atgcaaaaaca tgcaggttct acaagagagc acagggtcca ttcagagctt aactaatcag 360
acgggacaat tggctaca 378

<210> 31969
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31969

tccttgagaa gattcctaaa gaagttatag cttatcttca tacaccccct ataataagcta 60
agctcacccc catgccaaaa tacatgaaaa tataaaaaaa gtccttattt catagactac 120
tcaaaacgcc ctgaaatata aggctaatac cctatactac tataatggcc aaaatacaag 180
gccacaaga aggaaaaacc aattataaca ttacaaaaga agaatggatc caaccttgac 240
ccatgggctc aaaaatctac cttaagggtc ccacaccctt agggcctctt taatagctnt 300
agagcaagcc tcttgagtc ttctatccaa tacccttggg gggtatgatc tcatcatecc 360
ctccaccctc gaaggatttg accttaaate tgaggttcct atactctac 409

<210> 31970
<211> 384
<212> DNA
<213> Glycine max

<400> 31970

agctttgatg atatggtctt caccaatgaa aggatcaaag tgggactaat aagaggaaaa 60
tctgatcatc atgctttgat aaatgccaaa acaactaggg caaacgaaga gggtgagaat 120
gagggagaag cccatgctgt gactgccatt cctatatgac caagtttccc accaaccxaa 180
caatgtcatt actcagccaa taacaacca tctccttacc caccacccaa ttatgcacaa 240
aggccatccc taaatcaaac cacaaaacgc atccccacac aaccaagcta aacccactt 300

ttagcacgaa ccgaagcacc aacccaaaagg gaattttgca gcacaaaacc ttaggggtctg 360
ctcacatatc tactcgataa ttca 384

<210> 31971
<211> 420
<212> DNA
<213> Glycine max

<400> 31971

tcaatggagc tacatcggtta ttgtagggca cctagactag tttttgtact agaggtagtt 60
ttgtaatttc acatgcatta agtgaatatt tgatgtgtgt gttcgaaaat aaatttaatt 120
gaattgggag aagcccaatc caattaaatt ttagaggggg aggtgagcat ttgcttgcta 180
caccctattg ccacatcata ttgtcacact ttgtgcatgt ccttcatgct ttacatgcct 240
catgaccctt aagtacactt actggagaat ctgcacttg atcttggaca gtgggctgaa 300
ccatagctaa aattctctaa tcataattaa tgaaaatgtg gctccacata ttcacacca 360
aattcaagtg aaatctgaat agaaattcaa atctacctcc cattttgtga gacacttacg 420

<210> 31972
<211> 374
<212> DNA
<213> Glycine max

<400> 31972

agcttggtgt ccgtgtacac ggttccggtta atggtggcat tgacggcacc ggtgggtcatg 60
ctcacttggc tgccaccata agtggtgaca ttaagttgca gcctttttaga gtcacaccg 120
gcttgggtct gaacggggtt ggtgagagtg tcgaagttgg agattgagag gaaggaagaa 180
agagtgtgaa attgtaaaag ttcaaccttt tgccgtgctg tgagttagtt gaggaatcct 240
gcttttagct ttgagaaggc agaatcaggt ggcacaaaat ggtcatcccc cagaacctga 300
cgtgaggagt tgagagttga gttggttgat caactgggtc gtcttcagaa gccgaatcag 360
aacagaaaat ctct 374

<210> 31973
<211> 256
<212> DNA
<213> Glycine max

atgcatcttg attctcttga aagaggagag a

391

<210> 31976
<211> 388
<212> DNA
<213> Glycine max

<400> 31976

agcttggttac agaacttagg aaaaatcaag aacaagcttg ttcgcacatc gttcgcggtg 60
atgatattca ctgcacaagg tttgaagtag aggagacctt caatcctata acgcaacgtg 120
gcggacaaaa atgggcagtt aacttgaatg gccattactg tcaatgcgga aggtattctg 180
cgcttcacta tccatgttca cacattattg cagcttgtgg ttacgtgagc atgaactact 240
accaatatat agatgtttgtt tacaccaatg agcacatctt accgcatact ccgccagtgg 300
tggcctcttg ggaatgaagc ggcaattcct ccttctgatg aggcattggac actaatccct 360
gaccaacta caattcgtgc gaaaggtc 388

<210> 31977
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 31977

tagctntatt ccttacaacc actaccatcc aaatgggtgg aaataagaaa tgttgggctt 60
acgtcctttc cacaattcat aagaattcct tttaagattg gcctaataata aattttattt 120
tgtaaataat agacaatgtt tattggttca gcccataagt gtttaagggt tgagtgatca 180
ctaagcatgg tcctagccat ttctgaaga aatatacttt tcatttacct ctaaacadat 240
tctaatttgg tgttcttgga gtggaaaatt gtggtcatac cattctcttc acgaatattt 300
caaaatatca ttttcaaatt ctcccccatg attacttcta attgaagaga tacatgataa 360
tgactattga attactccaa aacaaataaa actaggaaat tntgcaatac aggatta 417

<210> 31978
<211> 381
<212> DNA
<213> Glycine max

<400> 31978

agcttggttac agaacttagg aaaaatcaag aacaagcttg ttcgcacatc gttcgcgtgt 60
atgatattca ctgcacaagg tttgaagtag aggagacctt caatcctata acgcaacgtg 120
gcggacaaaa atgggcagtt aacttgaatg gccattactg tcaatgcgga aggtattctg 180
cgcttcacta tccatgttca cacattattg cagcttggtg ttacgtgagc atgaactact 240
accaatatat agatgttggt tacaccaatg agcacatatt aacgcatact ccgccagtgg 300
tggcctcttg ggaatgaagc ggcaattcct ccttctgatg aggcattggac actaatccct 360
gacccaacta caattcgtgc g 381

<210> 31979

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 31979

tagctttatt ccttacaacc actaccatcc aaatgggtgg aaataagaaa tgttgggctt 60
acgtcctttc cacaattcat aagaattcct tttaagattg gcctaataata aattttatct 120
tgtaaataat agacaatgtt tattgggttca gcccataagt gtttaagggg tgagtgatca 180
ctaagcatgg tcctagccat ttctgaaga aatatacttt tcatttacct ctaaacatat 240
tctaatttgg tgttcttggg gtggaaaatt gtggcaatac cattctcttc acaaataatt 300
canaatatca ttttcaaatt ctcccccatg attacttcta attgaagaga tacatgataa 360
tgactattga attactccaa aacaaataaa actaggaaat tttgcaatac a 411

<210> 31980

<211> 204

<212> DNA

<213> Glycine max

<400> 31980

agcttttata taacgctcag cagcagtcaa ctattgatgc tcttcgtgac ttgggtgatg 60
aacttccatg acttccccac tgactgctgg tttcttgaca tacgtactcc gtgcaatata 120
ttcatactct ctatgcactg attgccacga gaactgcctt tacactatgg aattttccgg 180
gtgaagtctg gcaattcact atgc 204

<210> 31981
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 31981

tagcttgagt aaatattcag atcctgtccg accttcttta acatctctat ctttctcttc 60
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 tctcctctct ctggtcttct tgctggagag gcacgatggc aggagataat ccacacacct 180
 caagaaatag gtggaaccat ggaaatgttg taactgttgc tacaacttaa cgagagagat 240
 ataatctaata tacatgcaag tcttttttat cttgcgccgc ccaccaacgt cccatcgttg 300
 agaggaaatg atgtatgtca atctactact tgagtgcac atcagtcacat cactacgcat 360
 tttccagact aaactatgtt tttttaacat ataa 394

<210> 31982
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 31982

agcttctatc caaatggact taccttgaat taattccttt gatagcccct ttgagcctat 60
 gttccctttt ctttgttttg aagctcatta caagccttaa gtgaaaaacc atgatatcac 120
 cttaccctta aggaattttg gagctttgga attgttttgg gaataagttg ggaataagtg 180
 tgggggggta tgtttcattg gaagatataa tttttggcca tgcttaaatgt tttatttttg 240
 ccatgcttga tgtatctgta tattgcctag ttcttcttta ttctgccatt catactgttc 300
 aaaaaaaaaa aaaaaagaag aagaaaagaa gtgaagtga ataaatgagg tcttgttatg 360
 aggacttgat ttgggagcct cga 383

<210> 31983
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 31983

tttcaacaag tggtgtccat actatttgaa tacaagctca agtttcaagg agaaaagtcc 60

<210> 31991
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 31991

ttctaccttg tgcttgaggg ctacacattg ctcgatagag tgccccgtaa caccaccatg 60
 atagaggcaa gttgcattgg gattgttcca tcggggaaaa gaaggttggg agaccttcct 120
 cgggatcacc acaaccattt ggttggtgag aaaagatggg agaaggtcag cataaggcat 180
 cggtatcggg gtgaacttcg taggttttct ttccgagaag ttcttccttg ggtttgtatt 240
 tgtgttgggg ttgggatttc tagttggcga cgctgtgcag gaacggattt tttggggagg 300
 cctttgtggg tgagtgggca ttctttgttg gatgggtgcc ggactggaag gagatccgac 360
 attggctgag tagttgtact gggccgcggg atattggtaa atgggg 406

<210> 31992
 <211> 257
 <212> DNA
 <213> Glycine max

<400> 31992

tcgacctgtt gcttggtcat ttggagaaca tgcttcttgg aggacaacaa cgagggatag 60
 actgagagag gcgggatcac gaaattgaac gaatataaga ggtatataag tggaactttg 120
 aagtatgtct cacactactg tcattcatca gagttacaac aagtgtctacg aatgcttcta 180
 ttatagagta cgcaggcttg ctgagaagct atcttgagat aacttccttg agaagcgttt 240
 ttgagaaaac ttcttg 257

<210> 31993
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 31993

gtgttggtca tactatttga ataccggttc ttgtcttttc gacaaatgtc caacgttgtg 60
 acctgcatca tggcccaaatt ggaggaggac taaatgacac cactttgtct caattttaga 120
 gcgtttaatt tgcttaaata atggcccaac ccttgcaaag ttggatgacc aaaaatatgt 180

tatgggctaa tcaactcaaa gggcttttagt ccggttttact tcaagttgtc ataacgtccc 240
aattggcaac ctatgcatca accttttccc caccaaattg tggctgcttg atggatgttg 300
ggggtgactt t 311

<210> 31994
<211> 270
<212> DNA
<213> Glycine max

<400> 31994

agcttaatga tgtatgtcat accctaata tttttctttt tacagccagt atcatgaatt 60
gaaaatgtat tttgtggaat gcaccagatt gataaaagct ccaccaaatt gcatagagcg 120
tatttagaat attttttatt tctattttatc acatttagga aagaaaatac aatagtctcc 180
tcatcaagga gttacttaca acctacatta ttttaagatc aatctgactt gacttaacct 240
attcagtga gaattcatat tctattaata 270

<210> 31995
<211> 373
<212> DNA
<213> Glycine max

<400> 31995

tgactttaaa gaaaggagt gaagcactat tagaaatata agtttctacg acacctattc 60
tacgatgggt ctgagtgaac cgccttagaa aatgagcctg tggcatagtt cgtattattg 120
taatgaaaa atgcctttta caacacacat tctaagacga ttattgaaaa ccgcattata 180
acgttatggc taacaacatt taaaacatgt cctaataaaa atccatcgta attccgctga 240
aaaaaaatat aaccctagct agcctgttgg cgctcctccg ctcacctccc gctctagcac 300
tataacatga gattgatata gaggcaata cacttggcca attgcgtttt aaaaatttat 360
tatcctgatt aca 373

<210> 31996
<211> 382
<212> DNA
<213> Glycine max

<400> 31996

agctttcatc tagccaagat tatacaaaaag tgttacaaga gaacttaacg gtttctaatt 60
 atatggggcca tcaaattctat catgtgttga cagtaattga ttagcccatg aatctccttg 120
 ggggctgtac acactttggc aatggctttc gctttggcta atagtgcgg gagatcttga 180
 cttccattca aggtcaaggc gaacctatcc atccacatag tcgcttcttg atgcaatgcg 240
 tcaatcacc cccctcttgc ttctttttcg gctacactcg tgcaaatect ccactagctt 300
 ttgttcacgg gtcacagact ggttcaactc ttccttgtat ggacctatga tagttagcat 360
 gctctgctcc gtgggttcca ag 382

<210> 31997
 <211> 297
 <212> DNA
 <213> Glycine max

<400> 31997

tggaaggtag tcatacctca caaaatatat gtatgtgtgt ttacgccaga aaaatacctt 60
 ggatatgcat gtatgtaatc gacgtagcaa aaaaatacct cacaaaatat acatatgtat 120
 gtttaagtag caagacacct tggatatgca tgtatatagc aacaatatat atgtgtatgc 180
 ttaggtagca cgacaccttg gatatgcacg tatatagcaa aaatagctca cacaaatata 240
 cacatgtcga ggtagtaaaa cctcatgac ctaaccccc ataacacca aaaatta 297

<210> 31998
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 31998

agcttggaga agatgcttca atggaggaaa agaaagaggg agagaaagag agagggggga 60
 gcacgaaatt gaaggaataa aagaggtata gaagtggaac tttgaagtat gtctcacaag 120
 actctcattc atcaaagtta caacaagtgt tacacatgct tctatttata gactaggtag 180
 cttccttgag aagctttctt gagaaaactt ccttgagaag cttctttgag aaaacttctt 240
 tgagaagcta gagcttagct acacacaccc ctctcataac taactcacct ccttgagaag 300
 cttccttaag aagattccta aagaagctag agcttagcta cacatactc tctaatagct 360
 aagctcacct ccttgagatg 380

<210> 31999
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 31999

tgagatgagg aagtgttgaa gggtgaaact tctgctttt attgttgacc acagagtggg 60
 acctggagat atgtcgcggg ggtcaggaga ccttggggac gtcaggtggg gtgctattgc 120
 ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180
 tgatgtacct aagcaggcga gtcctggga gtcaacagat aaaaggaaaa caagaccaca 240
 aagcaaggag gcttgtggtg cgtggccacc tgtgaatccg tgtaatatgt ggattgtggc 300
 ctctggtaat cgattaccaa ggggtgggtaa tcgattacaa ggcttacaaa tgaagacagg 360
 aggctaagat ggtctctggt aatcgattac cacggcgtgt aatc 404

<210> 32000
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 32000

agcttggatt gcatcaagga aaggatacaa gcttgaaaac ttgaagaaag ttagagaaaa 60
 tgacaaccag atgtgtcaca ccctgaggtg tgacaattca catgggtgta acaagcacca 120
 aaaaacctaa attgacaaac aaaatgcacc atggctaagg tgtgtgaatt tccaccaccg 180
 ggaaacgcat tagacgacaa catgcgtatg tataatgttt ttaggataac ttaaattgta 240
 gaaatcgaaa cgacacgaga caaatgtcta atttcaagaa taccgtcca caacttcgtg 300
 aagatgagtt aagaatttca tgcctaaca gtgattctgg tcacacaagt tacgcacatt 360
 gtaataccct gtttcatggt 380

<210> 32001
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 32001

ctcaagcttg gcagctgata ttgcttttct gcaatcagcc gtcgacatgt ctttttaacc 60

cgagaccagc aactcaggct tgatggtggc tgacccgccc atggaacgac tatgctggag 120
tctaactctg ggccttataa taagtggaaa aacgacattc tctgaagaat aaatgggtgc 180
ccctgacccc ggcgttgaag ccgatgcttc cacagcatta aactgctcgt ccatttcaaa 240
ggcggatgtc gtcgacgatg aattgaactt at 272

<210> 32002
<211> 389
<212> DNA
<213> Glycine max

<400> 32002

agcttgaaca cttctattta cgtaaagtga gcattcctta cttctcacgt tatatttcag 60
aagacctgtg ccgtaagtta tgcgattcca cagataaaac atcaatagtc atatttttaa 120
ttacagccac cctatcaata ttcattgagtc atcacatgaa ttattgagct agctagaaca 180
aattcctcaa aaaagaaatc tgctatcatt tgcttttagaa tcacatttga tcaccacttg 240
ataatcattc cttaaataa gaatattcaa catctgggtc cctcgcccat caaatatgcc 300
acactcaatc taaacacttc acgcctaaaa tacatacccc ctcataatcc catccatata 360
taaatgttaa ccatgctatg cctatgggg 389

<210> 32003
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32003

tggaagcctt tgaacaaatg agagaatggt ggagtttgat gttcgagatc ccttccaaag 60
ctgtcagcct acgaattgag tagaggatca gagatcgagg ttggttgat gtgctataaa 120
atgtgcctta acataaggac tgggtaaatg agtttaagag ttaatttaat atgcaagttt 180
gacaaccatg catatgtata tcattaagaa ttacatatta agtaattttc tagaaattta 240
ggtaaagaag atggtgcctt aatacaagac aagaacgcct tttacgctca aaacatgaat 300
cagagcttaa accttgactt gtgaagtgca aaatctagtt ttgctctcct cgatcaactt 360
ttgagagtta tattaagtat ttgctagcat tattaattnt ttaactctat atttatgag 419

<210> 32004
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 32004

agcttattat ataaggtaag atttgatacc cacatagtta ctacactaca ctatcttttt 60
 gccagatgta ctttctagct gcttttattt ttaagggagt ctaataaagc ctaaaacatg 120
 ggactatgat atcaattatc cttatcaa at gtccatttgt gtcagccaca ttagtaagag 180
 tttgggtgca aacaacactg tatcctttcc gccatattat cctttattct tcttcagtgc 240
 tgactattgt ttgggggctt aaattgtgga gagcttcccc gctaaaactt ttaatgattt 300
 tttttttcct tctaaattgg ccaccaaga taatgaggta tctgttctgg ccaactgcttt 360
 ctacggataa atgatttgga acgtg 385

<210> 32005
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32005

tgagcataca tgaaaataaa taaataaata tgatagatga aagttaagac aggttgatga 60
 ggcaggagac aacaatgttt agaaagagat atgagaaaga cattgtgata ggtattaatt 120
 atcaatggga tctgcaaata agagaaggaa acagagagaa gggtagagagc acaaatgaaa 180
 tgagagcaaa tgctctacca agctagagag aggttctttg agctccaagt tctattgcaa 240
 atccatcata tcaccacaac ccaaaccoca attccaacta atagaatcac tctctatttc 300
 tctctctct aactaacttc cactaccctt ccacaaaaca gacacaaagc atcaggcctt 360
 atgtgggttg ggccttcaag aatacatctt gaagggccta tcccactntg tgactaattt 420
 ccta 424

<210> 32006
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 32006

00307-3072450

tccgaaaagg taaaaggaat catcacgggt caaaggccga tcttgaagga cagctaaagg 300
cttaccttan gtcgaaaaga aatttgctcc aacagttaag cgagactgaa gggaatatgt 360
gggccgtcat cgatgagtgc aaaaagaag 389

<210> 32009
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32009

tatgctgcac acatctacaa cagacctcct caacctcttc agcaaaaaca accacaacag 60
aacaattatg acctctccag caacaggtac aatccccgggt ggaggaatca tcccaacctt 120
agatgggtcga atccttcacg acagtagcaa caacaacctt attttcaaaa tgttgctggc 180
ccaagcagac catacgtnc cccaccaatc cagctgcaac aacagcaaca gccccagaaa 240
cagcaaacag ttgaggcccc ttcgcaaccc tctctogaag aacttccagg caaatgacta 300
tgcaaaacat gcagtttcaa caagagacca gagcctccat tcagagctta accaatcaga 360
tgggacaatt ggctacacag ttacatcaac aacagtccta caattctgac aga 413

<210> 32010
<211> 381
<212> DNA
<213> Glycine max

<400> 32010

agcttagtgt tgcaataatt taatataatt tactttattt tacttagtat ttcttaacta 60
aactaattaa tgtatcgaat catctaattt attaattgtt tatttttgta atatgtgaag 120
tataaataaa acataacaga caaggaagaa catttttcac gaaagaatga aaagaaacac 180
ttatgtcatg ggatgatcaa ctttaattacc ttaaattatg ttaatatttg aataacttac 240
gaaaaattta tgaattatta taattttact acctcaaatt tatttttgtaa taaatttaat 300
atgaatttaa tttgtctttc ttatcataag gttctgacat gtttgtttga cttacagggt 360
ccttcaacta aaggtgagtt t 381

<210> 32011

<211> 287
 <212> DNA
 <213> Glycine max

<400> 32011

ttagagctcg aatatgcctt ataagagtc tgattacaat tcgatgtgcg acagacttcg 60
 acgtagggat tgataatacc ctggagctgc ccatcttagt aggcttgaaa gagatcgctg 120
 ttagcacagc tgacgtgata gcgaatacgc tagcacggat cagacttgct atttgatgtg 180
 caagctgtat tgcgaatggc tctgaagcg gaatttaatc cttacgtata tgtcccgcca 240
 atcacaccgc catggtgcat tctctatata acttgactg atgctgc 287

<210> 32012
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 32012

agctttggag atccaaataa gttgaagaaa cgcttccatc ttgtatgtat ttttttcaac 60
 ttcagttatg cattttctta tatagctagc catcatcagt atgtcatcac caaacttcgt 120
 gcctcaaccc cacacaccgc tctttctctt gcaccccgat gccgccacct gcctcccat 180
 cctggtgctc ctctcgatc atcgtagcca ctctccgtg gtccagtaga ctgcgacgca 240
 tgacttggag gagcgccatg ctgattggct tactcaaagc cgcggtatgc gtttaaata 300
 catggaacac cgcatttggtg gtggtctcag cagtgatgct cgcttgacc 350

<210> 32013
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 32013

tgcttgtgga gcttctatgg aggctggatc tttgagcttt aatgaggtcc tttaatggtg 60
 attttccacc atggagatgc agcggaagac aaagaagaag aggtaagagg tggcgccatc 120
 cactacggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
 gcttggagag gatgcttcaa tggaggaaaa gaaagagga gagaaagaga gaggggggag 240
 cacgaaattg aaggaagaaa aaggccacac gctgaacttt cgttgtgcct acaagactgt 300

tattgataga gtacaacaag tgtgcacatg cttctattta tagactacga gcttcttgaa 360
agcttcttga aaacttcttg aaagcttttt g 391

<210> 32014
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32014

agcttataag ttagttgatt taatgaaagt ttttggtaac atgaagcata aaaatagtac 60
tcacacaagg ggtagcttac cctacgtagt agtaacagt gactaaaagt ccaaatatcg 120
aacccaaagg accagttgtg ttcccaaaca attatttctt gtaaactaag catgtatgg 180
taacttaa at gaaagataga tgtggtcaat tgctcaatca tgtaaataag aattaacgat 240
tgagaacttg atgggaaaac agttataana agccctctac gattggactc cacactctct 300
ctaattttta ccaatactaa ctctaactaa tcccaaata atgccaatga ctaatatgcc 360
caaattcaat tattaatctt t 381

<210> 32015
<211> 482
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32015

cgcgccgcga acttgngcgc cgtgggagnc ncttgagnac catcgatgat tcacgcgatg 60
ctatagaata ctgaagcttg tgcggccatg gaatattctg tatgggacgg agcctattat 120
cacacatggt gcatgagttc gcgtgctatg acatggtaca gatcaccctt caggagtctt 180
gtgcttattt gcagtatttt tgagctagcg taaaacctga agcgtatgta gcaggcttgg 240
atgatagatt tcttaaccag ttttaagcggc aacaatacag tatctatgac cgttgaagca 300
atatataccc tgtaagggtg ctgaattgtg tggattcaca tggactaaca cttcttgcta 360
ctatagtcag tagatttttt tataatgctg gtggtacaag caaggatatg attctacttc 420
aatggagcaa cagcagcatg aatcacatct cagccgagtt gccactaatg atgctactga 480
cn 482

<210> 32016
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 32016

agcttcccag ttatggaaag ctaaatacctc tgttggatct tccttctagg tacttgatgt 60
 aaatatcttt ttatctatctt aatgatgttt tgtgtgttca ctatgctatc agaacttcat 120
 tctaccatga ctttaccttg atcatgtaga tgcattgtgc cttaggatca ttcaacagtg 180
 gaaactagtt tgattcttat aacttgatac gacggggcta gtttggttga ttttcacgag 240
 gaatcggggg acggcaacct agttgttctt atccgtctta tgccgccatg gctgagttta 300
 gtccaacaag aggaatcggc ggacgatgct tgattatgat taggctacac tatcatgagg 360
 aatc 364

<210> 32017
 <211> 370
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32017

tggcatcatg cgctgtatgg aagtatggaa aaatggcatc atcgtacctt tgatatacct 60
 aacaatgagg atatctcaat ccgctatgag tttgatgtaa atgtcagtag acaaggctat 120
 cgtccattga tatacaggtc aatattctct ctctgttcat atatcgaaaa aggcaacaga 180
 gaagaatcga tttgaatttg tcattcaaata aactatcgta tattgataac aatggcgatc 240
 atcacatgag agtacctttn ttcccacttc accatggacc catctttaa ctacttcatt 300
 gtggacgatt ggagacaatg ctatacaaac tggcaagttg tacggcattc tctaactgt 360
 agtttagactt 370

<210> 32018
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32018

agctttaagc tttagtcttc attttgttca tgttgttccc cctatctata acgcaatgca 60
 tactgcaaca ctacacaccc actgcataaa gggatggcta aaaccaaggc agctattata 120
 caaccatgac caagactaaa atataatgtc atctattaag tagtttggat cagttataac 180
 attactcata ctgtcatcat tcataatata agataatagc atcaatgtaa tcaacaagac 240
 ataacaacgt cgtatccagc caaaagggtc atcagtgcac tcgcaaactt gccttgattc 300
 ttggccttac tttctcataa agaaacacca cgagattggt cttatactta cactntggct 360
 tatctgagat taactgtgat aaagtggagt t 391

<210> 32019
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32019

tgaagganaa cttgatgcct tggccaacct agtaactcag cttgccatga atcagaaatc 60
 tacacatggt gcaagagttt gtgttttatg ttcttctaca gatcaccata cagatctttg 120
 tccttctttg cagcaatttg gagtcaatga gcaacctgaa gcttatgttg caaacattta 180
 taatagactc cctcagcagc aaaaccagca acaacagaat aattatgacc tttcaagcaa 240
 tacatacaat ccagggttga ggaatcatcc aaatcaagat ggacaagtcc tcacgacaac 300
 aacagtctgt cccttctttn tagaatgctg ctgggtccaag caagccatat gttcctcctc 360
 caatgcagca acagcagcag cagtcacaac aaagccaaca agcaacta 408

<210> 32020
 <211> 382
 <212> DNA
 <213> Glycine max
 <400> 32020

agctttgagg gtgcgcagcc caccatcttt tcatagtaga gtaccgataa tgtgtctacc 60
 atcagatta tcgtctccct ttccattatt gggggtacca cctgcgccgc cagatccctc 120
 caccttttgg gcgtgttctt tgaatgatcc gtcccccttt ttgcacatgt tctgtagttg 180
 catcctatcc ggaaccatat caaaattgta ctgatactgc ctaacaaagg caaccattag 240
 gtccttccaa gaatggactc gggaagggtc caagttcggc accacgtaaa cctaccccag 300

<213> Glycine max

<400> 32023

tgttacagaa cttaggaaaa atcaagaaca agcttggttc cacatcggtc gcgtgtatga 60
 tatccactcg acaagggttg aagtagagga gaccttcaat cctataacgc aacgtggcgg 120
 acaaaaacgg gcagttaact tgaatggcca ttattgtcaa tgcggaaggt attctgcgct 180
 tcactatcca tgttcacaca ttattgcagc ttgtggttac gtgagcatga actactacca 240
 atatatagat gttgtttaca ccaatgagca catcttacag catactccgc acagcgtggc 300
 ctcttgggaa tgaagcggca attcctcctt ctgatgaggc atggacacta atccctgacc 360
 caactacaat tcgtgcgaaa ggtcggccaa aatcaacaag gataaagaat gagatgga 418

<210> 32024

<211> 235

<212> DNA

<213> Glycine max

<400> 32024

agcttccatt gttcaatttc gagtgtctcg ctatattatg cgctgaatc ggacctccga 60
 atgacaatgt atgaccatct gaacttctcg agagctacca tcgatcaatt tcgcgcgtct 120
 agaaatatta tgcgcctgaa tcggacctcc gagtgaaaag atatgaccat gggaaatctct 180
 cgagagcttc cgatgttcaa tctcgaacgg ctagatctat catgcgagag tatgc 235

<210> 32025

<211> 407

<212> DNA

<213> Glycine max

<400> 32025

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 actctcagcc acttatgata gccgtcgatg atcccattac tgcttcccct aagctctctg 120
 tcctttcttc acgccgcac ccattgccttg cgaactcctt ggagtaccct cgcgttgttg 180
 tcactgaaac cccgtgcgat gaaaggcgtg atgctttcgt ctaatggcgc tcctctcatg 240
 gggtagccaa gctgtcttat ggcagaacgg gattataatc atacaacccc ttgttcccat 300
 caagggaaca tttggacatc cttcgcgatga agatagaatc ttgattcttc ctttcttcta 360

<210> 32026
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 32026

agcttgagaa acattgggta attgagttac ttcaacattt tcataagtca acataatgaa 60
 acaaaaacct ctagcatatg ttcccttaat aatgtaaaca ttaaacaatca gacagagtac 120
 ttgcctctag cacagtgtaa tgatggattt gtatttatat agtttataat aatcatatat 180
 ttaagaataa cgcgcattha tgaatacagg acaaccaaac aaacttaaaa taacaacgca 240
 tgcacgcaaa cacatacatg gggcatgtcc tgcaaccttg attaacttga atattggcca 300
 tccatagctt attcaatggt tggttagtgt tacgcttcat attcacatca caactaacia 360
 caggaataaa gtcatatcca tatcacia 388

<210> 32027
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32027

tcatgatgaa tcaagattga tttaaagagt tttgatgata acaaagatga tgacaaaaag 60
 ctcaaaagtc aagaacactt catgataaca aagatgatga tctaaagaat caaagaatga 120
 gttcaagatt gaatcaagaa cacttcaagg ttcaaaagga aaattgattt caagaatcaa 180
 gaatcaagtt tcaagattca agttccaaga atcaagatca agattcaaga ctaaagattc 240
 aagaatcaag agaagactaa atcaagatcg tcttaciaag tttttcgaaa actgagtagc 300
 acatgaattt ttctcaaaa ccttntacca aagatttttt actctctggt aatcgattac 360
 cagattgttg taatcgatta ccagtagcac aatgggttcta tataaaagcc ttc 413

<210> 32028
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 32028

agcttttaaag gatactacgt tgtcacccag tagggcctcc ttaacgtgtg gagccgggtcg 60
tgggatgatg atctgctgat cacaggccta gtgcctgctc gtaccgctcc ctgagaattg 120
gttaagtggg aaatgacatt atgctgtgaa acatggctac gctaccactt acctcgggttc 180
atccctgtct tggatctggc gccgtattga ccatcgcttg aaatgatctt gtncttgtct 240
ttcgattcat aaaataaaaa tgcattgtgca tgtgtcccat gagcagctcc cagcaataa 300
tttttttagca aaagcctgtt gggttcagtt ctaattaagc gctggtcgca tccccatgga 360
tcgagcaaaa aggctcggat catta 385

<210> 32029

<211> 375

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32029

agctttcatc tagccaagat tatacacagg tggtacaaga gaacctaacg gtttctaatt 60
atatgggcca tcaaattctat catgtgttga cagtaattga ttagcccata aatctcctcg 120
ggggttgtac acacttcggc catggctttt gctttggcta atagtcgctg gaggtcttga 180
cttccattca aggtcaagggt gaacctatgc atccatatag tcgcttcttg atgcaatgca 240
tcaatcacac tacctctngc ttgttttttg gcctcactcg cgcaaactct ccactagctt 300
ttgttcatgg gtcatagact ggggtcaactc ttccttgtac taccctatga tagctagcat 360
gctttgctcc gtggc 375

<210> 32030

<211> 244

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32030

ntcatagggtg atataaagcg cagccatttt tcttatatta ctctcacgag gtggagggtg 60
cgccatgttc ttagaacgtg caaaatcaca acgtcagaa tcacaatgct caaaatcatc 120
atgctcaaga tcaggatgtt caaaatcacc aataacagaa tgcacatact caccagttat 180

ggaatgctca caatgatcat cacggatata acgatgccta cctaattctat gaaatgtcct 240
atct 244

<210> 32031
<211> 383
<212> DNA
<213> Glycine max

<400> 32031

agcttctaca tgtctagaga gttatagaga gagaaaggte caagttccag agagtttggg 60
agatttttgtt gtgtgaagat ctgcagagac cagagcttga agaggaagtc gtcctgagag 120
cttgggatga gtttgtgagt gattgtgagg tcttagagggt ggaggagaca tccccactac 180
ttgtatttct gcaatcttct atcattctct tctcttttgtt gtaaaggaag cttcccagtt 240
atggaaagct aaatcctctg ttgaatcttc cttcacgtac ttgatgaaat atctttttat 300
ctatctaata atgttttgtg tgttctctgt gctatcagta tttcattcta gtatgctttt 360
accttgatca catagatgca cgc 383

<210> 32032
<211> 418
<212> DNA
<213> Glycine max

<400> 32032

tgtgcattca atatcctaata caggcttttt catatgttct caagactgga ctaatacatt 60
tgctgcccac gtttcatggt cttgcagggtg aagatcctca taagcatatt aacgagttcc 120
atattatttg ttccaccatg aagcccttga tgtgcaagaa gatcatatct ttctaaaggc 180
tattctcat tctttggagg gagtggcaaa agactggcta tactaccatg ctcccagggtc 240
cattttcagc tacggtgacc ttaagagggt cgccttgag aaattctcga gacaaatgac 300
catacagaat atgcaatttc agcaagagac aagagtctcc attcagagtc tgacaaatca 360
gatggggcag atggctactc agttgaacca agctcagtcc cataattctg acaaattg 418

<210> 32033
<211> 548
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32033

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tccatatcta canntnatca ccgcgngaca ttgagtcctgg ttgacgtcct acgctcactc 120
ataggagaat tcgagcgccg cagccgagga tcctctacag tctagcagca tgtctgcatg 180
tttagaacat aacgacatgc aagcatcggt aacaaatgga cttcaagaca gtgcatctga 240
ttatcacgcg ctctgctaag gccacactaa cgtgccaatc atcagaggct aaacatagga 300
aaaaggctat cgtgctaagg gtaactctat aggacctata ctcttgcta tgcacggtg 360
tggttatcat gccttaacag accacactcc tgagcacacc cgattggacc aacaggacct 420
cctggatgga cgtactgacg aaagcccaa tcgactccat gaccggagtt ataaagtata 480
taatacctac actgaaggta tttaactcct aaatcctatg gctggcctgc aaatactccg 540
aattcacg 548

<210> 32034
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32034

cggagagaat gactcactgt tggaaaatta gagatttaga gagacggcgg accacaaaat 60
tgaatgagct aaagaaggag atcaggtgaa ctctcgaata tgctcataa gactatcatt 120
caacaacgcc accacaagtg ttccacatgc ttatatttat atcctccgtg gatccctctt 180
gataactatc ttgataaact accttgagaa tgttacttta gcagttaccg cgagaagaca 240
gagcttaact caaaacgcat ataacgccac cctcacttgt tcacaagctg acttgataat 300
ntaacttgag aagcttactt gacaagattg ctggagaagc tagagcttat cactcccacc 360
gatttaatac ttaagatcac ctccctgata cgataagcta gaggctctcc g 411

<210> 32035
<211> 379
<212> DNA
<213> Glycine max

<400> 32035

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 tggaggaata ttttgaagg cccaagtggg cctaattgct atttgcaccc ccatttttac 120
 taaatacacc tcttgccttt ttttggtgat tctttttccg taacgttatg aaactttacg 180
 aatttcgtaa cgatgcttgt tttctttccg taatgttacg aaaccttacg gattacgtaa 240
 tcataccttt ttttcttcc ggaacgttac caactttacg gatgcgcact aacacttctt 300
 tttaatttcc ggcatatcac ggaacttcac gaattgtgct acaatgcttt cttttgactt 360
 ccggcatgtc acgaaactt 379

<210> 32036
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 32036

tgttgaaatt gccatgtttg gatgagttaa acatacccat tctgttttag ggtttttgtg 60
 atgatgtttg tgatgtttat atgctgaaat tgctgatgga agtctgttag agacgagggt 120
 agaactaacc taaggttaga aagtgagaat gtgatgttat gagtggaaaa agagtgagac 180
 tttgagagtt ggaaggctaa gtctgaatta tgtggtaaata ggagggttaa gtgagttaat 240
 actagcttga aatgtcattc cgacatgtga gaaagcgacg ctgagctaga gagaaaaaaaa 300
 aatgaccaa gtgaacaaag agccctttct agggcaagat tgggtgttga agagtcaaata 360
 tttgattcgg tgag 374

<210> 32037
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 32037

agcttgcaca aaaactttct agcagtaata ttaaggttat agaaatttct gtagaaagta 60
 aaacttaaaa tgggacaatt acttaggcaa gtcaagtaac taatatttct taaacagtat 120
 tggacactca taacgtataa aattataatg tttacctgag aagtgtcttg aacagaggaa 180
 gtgcgacccc atctctcaga gtcccaaagg atggagctat taaaagcaaa acttgaaata 240
 tgaattgggg gagtgatagt atcagtttgc tgctcatatg tccagatgcc aaccaatgac 300

ttgtgatgaa tcacatacag gtccttcgat tctactttct ctctgagtgc agctaacaaa 360
gctgtcggcc atg 373

<210> 32038
<211> 425
<212> DNA
<213> Glycine max

<400> 32038

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aactcaaacc aaggcctaac cgtgtttgca cccactgata atgcattctc aagcctcaaa 120
gcaggaacat taaactccat aaactcacia gaccaaattg agctgataca attccacatt 180
ctccccactc tctacaccat ctcacagttc caaacccgcaa gtaacccctt gcacacgcaa 240
gctggaaaca gtgatgatgg agagtatcct ttaaattgtga ccacctgacg cgaaccaagt 300
gaatgtcgaa ctgaggtggt tgatacaaca gtgtccaata ctatctacag tgatactcat 360
ctctcagtgt atcaagtgga taagggtgctt ctttctatga agcttttcgg cgcgacggca 420
ccggc 425

<210> 32039
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32039

agcttgatta ccaatatccc atttttccct gtagctcatc gcgcttaagc ataagcaact 60
cttcgcttaa gcactagtac ctcataagagc ttcaaaaaaa gagtttttta ctttcaatgg 120
cttccaaatc aaccctaatg gaatctcaaa cctatcaaac atgtntatac atgtttaaag 180
aagcctacta tacaatgggt ttgttagatg atgataaata gtactttgat gccattgtag 240
agacaagtaa ttgggggttca aaatattatt tgctaaagtt gtttgcaact ctagtattct 300
ccaatcagtt atctaaacta gaatatgtgt ggaacaatat gtagcaatac ttgacagaca 360
agacaacttt tgcagtttcc aaat 384

<210> 32040
<211> 369

<212> DNA
<213> Glycine max

<400> 32040

cgcttgattt atgaagaaaa ttattgctgt tccgaagaaa tgaaagattt ttttcattta 60
atataatatt attgaaaaag aggatacaga gtataagggg tatacacctt tacaatctgg 120
tgattagttc ttctctgagg ctttttgcaa gagccaaaat aaatttattc ataatatgac 180
taaaaacaca agatgtgtta attaatcatc ttaccgtcca agtaaattac agccatattc 240
gtgcagcata acacaagtca cccccaccc tttcaaaaga ccagaacgga aaattctatc 300
cgtacattga tttagattat tctctttcag gttgtggtaa tattaaaaaa gtattgtgct 360
gttatgtga 369

<210> 32041
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32041

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aaaggagaag ggaaggagg gagaggtcat gggttcgaat tccccaccta catctaacaa 120
actaacattc tcggataatt atgttttcca gaaagagtta taagacaagg taaaattaag 180
ctttttccgt aagttaaaat taacttatgc ataatttaaa accagctttt ggagaaccta 240
aagtgagcga ttttctatag aagtatataa gttgatttaa gacttagttc attctacttt 300
catattttct ttttctataa gtgcttactg aaaaatttat cctaacactg cctacattac 360
attgtttacc ccaacgtttc cccgtcctat gccactntca cgagtcacaa taaactcagt 420
ataagctctn ttaaatgggt tcttagtgat at 452

<210> 32042
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32042

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tacaaaaatg ttttccccag aacaagtaca cgtaaattat aacaaatgaa caaacaacaaa 120
 agcatacttt cattttctcc tatcaaattt atcctgagaa aacaaacaaa agtgagtcac 180
 ttacagggaa caaattcttc cagaactgaa gatcagtctt aggaggctca actatcttgg 240
 tggcccaaca gaacaacatt atgagagagc cacatgcaag ggagagagtt gaggtaagcc 300
 aagggtatgg gaatgcattc agcaccttct tgttataaat gttgaacacc acattcagtg 360
 cccaccatgt tgcanagtat atcccaatct tcaccttctt a 401

<210> 32043
 <211> 530
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32043

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 tataatttct atcgcttaca cagatctgca cccttctaaa caaatcactg ggaagacgcg 120
 tgatagagaa acaattaagt acaagagtta gaaagaatga tatatacacg gngaacctag 180
 agtattcatc ggtcagaagt taaaaaaaaa ctaatttttc aaagtattaa tgcttggtta 240
 aataattaac ctcttttaat agacattttt tcatacatat aaattaaaaa attaaactct 300
 taatctcata tgattatctg ctaactatgc ctttcagtta tatatgatac cacataacan 360
 acaaaaataa tcataataag aaaaaaggtc ttaataaccc catatataaa acccttggtg 420
 tttctagata tgggtggtgt tanttaaatg gttcataaga tatganatga gatcgaagga 480
 tagacnaagt acggtggtga atagtagtan aagaatattg aacctggtgt 530

<210> 32044
 <211> 401
 <212> DNA
 <213> Glycine max
 <400> 32044

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 gtgctcaaat atatggggca atcttgattt gctttcttgc ttgattacgt tgaattaggg 120
 gccggcatga gatggcccta cgcctataat gcattttgaa acaatacgac atgccacatt 180

gtccccgttc tcttgctatt gatgcctaaa cgcgcgccca ccaagtgttc tgtgaaatgc 240
 ctcaatggca ttagcctgtg acttttgtaa ggagacaacc catgctgtat tatgctttgc 300
 gcatattttc tagtatggct tcattcccga caaaggctag agcaattgcc ccacatatat 360
 cctactccta gaaactgaca atctatgcac atagagcaca c 401

<210> 32045
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32045

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 aagattaatc ttattagtaa tatataacta ttattaattc aaaaaaaaaat tacacataaa 120
 gaaaatcaaa cttaaattgt ttgttaaata aataattctc ctacatatata atacaattta 180
 caccactata tcaatcctat aaactaattt tgaatttgaa tttgaattta cacaataaag 240
 tttgttcaat tgttgtaaga taatatctta ttatatTTTT ttagattagt ataaaattga 300
 ttaaataata tcctattata ttagtcataa taggacaatt cttaaattga ttaattagtt 360
 aatctgattt agaatagctc aattgcattc ggtgaaacat acttgtgatg cagaaagaac 420
 aggttcaagt ttcaagtatc taagacatgg ntgtatataa cctat 465

<210> 32046
 <211> 410
 <212> DNA
 <213> Glycine max
 <400> 32046

agctttgttt tgatttcattg aagttgaaca attgactcca agcaatatat aggaacttac 60
 ttatggacaa acagaaatgc agcacaagt aacaagggtgc ctgtaacaag aatccatcca 120
 ataaccacca agctgcagcc acgataaaaa aaaaaaaaaa aaacagaaca tcttttactg 180
 atagaaactt aacgggagac aaatctatca gagtgaagga aatgaaatga attcaactta 240
 cgagtataca ggaccgggca aagcaagtaa agaaaatact gcaaaaatta aatcaagtgc 300
 atatgatttg gttaacattt agtatagagt aagaaaaaga aaaaagacaa aacccaaatc 360
 aaacatacac aatccgagaa atgcaacaaa gatcataaca gcagcaacag 410

<210> 32047
 <211> 533
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32047

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 gacggagttg gcggcgccgg cggcgggtgat ggatgggaca acggtgacgg cggaggggtcg 120
 gggttttggg attcgaataa tgggaatgat agcacggact tgtattaccg gacgatgatt 180
 gaagcgaatc caggggaaccc tctgtttctt ggcaactacg cgaggtactt gaaagaggta 240
 cgtgaattga agctatttag ttattacttt tagattaaag cgtgtagatg gatgaggtga 300
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 ggagagcgat tttggcgaat ccgaatgatg ggaaggtgct atcgatgtat gcagatttga 420
 tatgggagag ccagaaagat gcttcgcgtg ctgagactta ttttgatcaa gcggntanna 480
 gcagctccga tgactggtaa ctaacatcaa actcttgggt ggttctcttt atg 533

<210> 32048
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32048

ttgcttctca aggaagtttt ctcaagaaag cttctcaagg aagctaccta gtctataaat 60
 agaagcatgt gtaacacttg ttgtaacttt gatgaatgag agtcttgtga gacccaacac 120
 aaagttcaac ttctctccct ttttcttctt tcaatttcgt gctccccctt ctctctttct 180
 ctccctcttt cttttctctt attgaagcat ccttccaagc ttcttatcca aggtcatct 240
 tgggtggtgaa gtccttctt ccattggctta ttccctagtg gatggcgcct cctctcacct 300
 cttctctttt gtcttccgct gcattctcat ggtggaaaat caccattaaa ggaactcatt 360
 gaagctcaca gatccagcct ccatagaagc cncacaagca agc 403

<210> 32049
 <211> 427

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32049

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 ctaaagttcc aagcactttc tccatcaccc acagccacca ttagccacca caaaccatca 120
 ttgtttctca ttgaaaaccc acaccgagag gaacccttca accaaagcgg aatcttccaa 180
 cttggcttgc ggtttcggtg gagaacgaaa accctaattc gacctttcgt tttctttcaa 240
 ggtaatcatg gttctatgct tgtttcttgt tagttccatc ttgtctttgc atcttttcta 300
 actntggaac cgccattgca tgtcttatgc ttcctttgaa aaaccttaga gaaagagact 360
 ntgtaaacgt tatectttca tgaaatgcat gttattttcg taacctacac tgaaccccg 420
 tcacatt 427

<210> 32050
 <211> 404
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32050

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 attaatTTTT tttctttgcc ttctcttcca ttgttggttc ttaatttttc tccatgtatc 120
 tcttcacatg tcttggttca aatgttggtt acatgattct ttagagtttc caccgattaa 180
 acttgctata gaagttagat ttgattttct atggttcaaa tttcttggtc ttgttcttga 240
 accatgaatt gtgttgagtt tacgttctct tgagttttgt cttgttattt tttgtggctg 300
 aaacctaaac cataaaattc ttacaaaaat attaaagtag aagacaacct cataaatcta 360
 gagtgaactg ttcacctatt gtagttntgt catagaagtc atgt 404

<210> 32051
 <211> 421
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32051

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agccatcaag ggatggcgtt ttctccggga gcgacgcgtc cagctcaggg acgacgagta 120
tactgatttc caggaggaaa tagggcgccg gcggtgggca ccaactggta ctcccatggc 180
caagtttgat ccaaaaatag tccttgagtt ttacgccaat gcttggccaa cagaggaagg 240
cgtgcgtgac atgagatcct gngttagggg tcagtggatc cgttcgatg ccgacgctat 300
cagccagctc ctgggatatc cgatgggtatt ggaagagggc caggaatgcg agtatggcca 360
gaggaggaac cgggtctgatg gggttcgatga ggaggccatc gccagctgt tatgtatacc 420
g 421

<210> 32052
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32052

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gggatgcccc acattatttc catgacacaa atgcaaaaat gatgatttgg aaactttatg 120
caaaactggt catgcatgca cctatgcgga cactcaactg gtcatgcatg cacctatgcg 180
gacactcaag tgtcaaattt ttatgggtcat gtgacgctag ggctcaggat tcatttcctc 240
tatttttagt caaccaaacg ttcccaaaat atgttctttt atcaatttgt gcattcatcc 300
gagtcattt tgggtactcg ggaaaatttt cacagcattc acccttcagg tgtatacaca 360
ttntttcaaa aactagttat gatcagtga 390

<210> 32053
<211> 470
<212> DNA
<213> Glycine max

<400> 32053

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agagaataag aaggagggag aaacccatgt tgtgagtgtc gttcctacat ggccaaattt 120
tccactagct caaaaatc aatactcagc taatatcagt cttctcatt acccaccgcc 180
ctaccagcca agaacacca atcatccaca aaggccaccc ctaaatcagc cacaaaaccc 240

acctgctaca catccgaggc caaacaccac ccttaatatg aaccaaaca ccaaccaggg 300
 acggaatddd ctagaaaaga agcctacaaa attcaccaca attctggtgt cgtatgctaa 360
 cttactccca tatctactca ataatgcaat ggtagccata atccaacaa agattttctca 420
 acctccattd ttctgaggat acaactcgaa tgcaacatgt gcttatcatg 470

<210> 32054
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 32054

ttgcttttga ttaaagtgat gacgtacaag ccgtaaaggc aaagcttgag agagcccggg 60
 tagtcgaaga gaagttcaag tccatagcca tcaaagtttg aaaagagtat gatgaactaa 120
 gggatgtcaa tatggccacc gatgaagcct tggaatgaga aaccaagaag gcccgaaagg 180
 aagaacacga ccaaagccaa gttttgaggg gcttttatagg gcagcaatag tgagctcaag 240
 ctccgaagag gtgaaaggaa tcatcacggg tcaaaggcat gatcttgaag gacgagctaa 300
 aggcttgctt tatgtcgaaa agaaattdgt cccaacagtt aagcgagact gaagggaata 360
 tgtgggcccgt catcgatgag tgcacagaga agctaaatct a 401

<210> 32055
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32055

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 gttttgctca aagaaaagct tactaaggca cctgttctag ctcttctga cttttctaaa 120
 acttttgagc tagaatgtga tgcctctaga gtgggagttg gagctgtatt gttacaaggt 180
 gggcacccta ttgcttattt tagtgaaaaa ctcatagtg ccaccctcaa ctaccccacc 240
 tatgataaag atcttttatgc ctttaataaga gccctccaaa cttgggaaca ttaccttgtt 300
 tccaaggaat ttgtcattca tagtgatcat caatcactta agtacattag agggcanagc 360
 aagttaaaca agaggcatgc aaaatgggta gagtacctac accaatctcc ataggttatc 420

acatacaaaa agggacaaca aatgtggtag ctgatgcgtc tct

463

<210> 32056
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32056

ttgctgcacg cccaccagtc atcacttctc ttgctaagtt ttttttttta acatatatct 60
ggcgagaatt cagaatttag ctgaaattat ttgagcacia gtttttgtgg cagatcaaaa 120
aaatattctg gtcaaacttt gggcttattg gggtcacata cacattatta ttgggcaaaa 180
atttaagaga tacctattgg actaaatata cggtattgtt caaggtaaatt tgagcgacct 240
aagaataaag taggaaaagt agagcgccac aatttgctgt tgctttcatt tagccaacac 300
aaattgtttt gattntttta atatttaatt ataacattnt aaataattcc ctcagaacat 360
atcaataatt tggaattttc aacagaatat agatt 395

<210> 32057
<211> 500
<212> DNA
<213> Glycine max

<400> 32057

gacattcatg gtgctccgaa caaagggtgga gtatggagga ttgccttgag ggtccgcact 60
taggcaatca tgaaactcag ctccaaactc aaaagtggag gacacatgaa caaccctaag 120
caataacatt catgtgtctc cggaaaagga cgagaatgga ggattgcctt gagggctctc 180
tcttaagcaa tcatggaata cagctccaaa ctcgaaaatg gaggacacgt gaatgacaat 240
gcaattcact cacgtggctc cagaaaagga tgagaatgga ggattgcctt gagggctctc 300
tcttaagcaa tcatggaaca caactccaga ctcaaaagtg gagaacacat gaacagccct 360
aagcaataac attcatgtgg ctccagaaaa ggatgagaat ggaggattgc cttgagggtc 420
ctctcttaag caatcatgga acacagctcc agactcaaaa gtggagaaca catgaacagc 480
cctaagcaat aacattcatg 500

<210> 32058
<211> 400

<212> DNA
<213> Glycine max

<400> 32058

tttgcttgct tatttagtag acccttgaag ataaaaccat tacattttgg ttcagaacag 60
catgtgcaaa aatgtaactg atgaataaaa cagagaatgt atgccaatga tataagcaat 120
agtttaaatg gtatttaatc tgatgtgaaa gccatacaaa caaaccttaa cagcaccatc 180
atagtctgtg gaggcaagat agttctggat gtagttattc caacaaacac aactgagcct 240
tgatctgttt gacatctcaa ctacaggata atggatgtca atggaatcat tgaaaagtgc 300
attgaactca aatattttta ttttctttga tatcccagca gcagcaaagt aatcttcac 360
cctatcaaaa ctacagagagc atattacatt tgcaggatta 400

<210> 32059
<211> 526
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32059

ggcactatca cgacctgaaa gaaagaccct tcttcgatgg gctgtgtgat tntctaagct 60
ctggccctgt tattgcaatg gttagaaaat ataatgact caaccactga cttagaatc 120
caacaagcca gtgtccctaa tctgtctttt tttcttgttt ccaaaaattg atatcatag 180
tgtgggaagg acaaggagtt atttcctatg gccgaaagct aattggagcc acagatccac 240
agaaatcaga acctgcaacc attanggggtg atcttgctgt tgctgttgga aggtaactaa 300
tagcatgttt gggtacaaga tgtgggtttt acgtgtactg agatgtttat agttataatt 360
ntcacatcca aatgtaatt tcttacttct taacnntggt caaacatcng tataattggt 420
aaccanagaa aagtgctagt ttcgtttctc ttacataat gaattgtcca tttattgggtg 480
atcacaattt gataattggt gtcatgcatg cagaaacatc atccat 526

<210> 32060
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32060

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 ggtcagcaga ggagcacaaa ccacagaccc ttgacgacagg tacagatttc tagttcaagg 120
 ccagctgggt taccaagtta actaatgcat ctagtttgcc ttcaagcttc ttagtttcag 180
 atgatgcagc tgagtttgta gctacctcat gcactcctct aatgattata acatcatttc 240
 tggcgctaaa ctgctgggag ttggaagcca tcttctcaat taaatgtcta gcttcaatac 300
 gagtcatgtc tccaagggtc tcaccactgg cagcatctat catacttctc ttcattattac 360
 tgagtccttc ataanaatat tgg 383

<210> 32061
 <211> 553
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32061

gatttcttta gggtatttca tataaacctc ctctctctaaa tcaccattaa gaaagcatgt 60
 tttcacatcc atttggtgca actcaagggtc aaaataagca actaatgcca agataatacg 120
 aagagaatct ttcttagata caggagaaaa agtcattgtg taatcgattc cttctttttg 180
 agtaaactct ttagcaacga gtcttgccct gtatctctca atgttgccca atgaattggt 240
 tttggtctta aagaccatt tacaaccaat ggcctttgcc ctattaggca actctacaag 300
 gtcccaaact ccattgctct gcatggaatt catctcatcc ttcattggaat cataccataa 360
 atttgactct ttacaactca tggcttaatc aaaatttttg agatcattnt caactccagt 420
 attatagtca aattcttaca aatatacaat antataacta ggaacnaact aatntcttac 480
 tctagtagat ctgcttaatg gtgtcatcac attntcttgt ggatcatggt gttagnagg 540
 gtgtgatcat ttc 553

<210> 32062
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32062

agctttcatc aagtggtaat cagagcacaa gagcttcaag taggtgctcc ttaaactccc 60

attaattntt ttgctttacc ttctcttcca ttgttgttc ttcatttttc tccatgtatc 120
 tcctcacatg tctagtgcta aatgttggtta acatgattct ttagaatttc caccaattaa 180
 aatagctata gaagctagat ttaattttct atgggtcaaa tttcttggtc atgttcttga 240
 accatgagtt gtgttgagtt taagttcctt tgagttttgt cttgctatct ttttgggct 300
 gaaacctana acataaaatt cttacaaaaa tattaaagta gaagaaaacc tcacaaatct 360
 agagtgactt gttcacctgt tgtagttctg tcatagaagt catgtcta 408

<210> 32063
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 32063

atTTTTctga gacgtgatgc aatccctcaa gttattgtta ctgatagaga ttcaacattg 60
 atgaatgcaa tgaaaactat tttccccaag tcaaccaact tggtgtgttg gtttcacatt 120
 gataagaatg tgaaggcaaa atataaaacc tttgtgggta aaaaaaatgc atgggattat 180
 gtcattggaag catggaggag tctcgtggat tgccttctga gcaagggttc gatgagttaa 240
 gaagtttgaa attgcttgct caccatgggc aatatttggt gactatgtca aacaaacaaa 300
 gttgattccc tataaacaaa gatttgtaaa gcttgagcga ataaggatgat gcatctatga 360
 aacacaacaa ctaac 375

<210> 32064
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 32064

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 tatcttttca ttctcttctc ccttttccaa aagaacgaag gactaatcgc ctgaattctt 120
 ttgtgtctct cttctccctt tgccaaaaat aattcgacaa ggactaaccg cctgaattct 180
 ttttgtgtct ctcttctccc ttttccaaaa gaacaaagga ctaaccgcct gaattctttt 240
 gtgtctctct tctccctttt caaagaattc gaaacaacac agtctgagaa ttcttttgat 300
 tcttcccttt cccttacaca aaatatttca atggactaac tgctgagat atcttttatt 360

tcccccttcac aaagtttcaa aggactaacc gcctgagaac tttgtctta

409

<210> 32065
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32065

ctctaagggc taccgtgtct acaacttgca aactaagaaa ctcgtcatta gtcgagatgt 60
tgaagttgat gagtacgctt cttggaattg ggatgaagaa aaagtggaga agaacgttct 120
tatacccgct caactacctc aagaaaaagc tgaggaagaa gaccaggtg aaccaccttc 180
acctccacca caacaacaag atcaagaact atcatcacca gagtctactc caagacgagt 240
aagatctttg gtggacatat atgaaacctg taacttggcc atacttaaac ctggaagctn 300
tgaagaagcg ttaaagcagg aagtatgggt caaggcaatg gaagaagaga tacagatgat 360
cgagaaaaac aacacatggg agttagtaaa tcgtcccat caaaaagata tcattggggg 420
taagtgggtc tataagacan agtcaaccc tgatggcacc ataca 465

<210> 32066
<211> 397
<212> DNA
<213> Glycine max

<400> 32066

agctttcttt agatgctaga gggggctaag ctcacacccc tccaatagct aagctcacac 60
ccatgccaaa atacatgaaa ataatgggaa gcttccttga gaatcaagga acgtagcctt 120
cttgggaagc aaggaataat gcttccttga aaagctagag gggagctact cacaccctt 180
caatatgaaa atacaaaaaa agtcctact acaaagacta ctcaaatgc cttgaaatac 240
aaggctaaaa ccctactact agagtactct taacttgtac ccttaatttg tagggtagcc 300
tataaaccta aaattgccaa aatataaggc ccacaagaag gaaaacctat tctaatttc 360
acaaagaaca gtggacccaa ccttcgtcca tgggctc 397

<210> 32067
<211> 479
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32067

cctgagagca tgagatgagt ctgtgagtga ttgtgagggt ctagagggtgg aggagacatc 60
cccactactt gtattttcttc aatccttcat ttttctcttc tctttgttgt aaaggaagct 120
tcccaaatat agagagctaa atcctctgtt ggttcttcct tgtagggtact tgatgtaaat 180
acttgatat ctatttaatg atgttttatg tgttctttgt gctatcagta cgccatttca 240
ttgtgctttt gccttgatca tgtagatgca tgctttgtta ggatcattca acagtggaaa 300
atgggtcta at tcttagaact tgataagaca gagctagttt atcgtattat cacgagggat 360
cgagggtacgg caaccttggt gttgtatgtt tgcttaatgg ggtctgtcgt gttagtcaaa 420
tgagaattga gatatgcttg atctgatang tagatatacg agaattggatt acattcaga 479

<210> 32068

<211> 402

<212> DNA

<213> Glycine max

<400> 32068

agctttatatt actatattct ctttctttac ataagaatct agcaaagtaa aatgaaatat 60
gaatttatcg aagacctcaa cacagatcgt gatgattgggt ttctaaaagt gtgtattgtt 120
tgattgtgga atgtttatac aaaacaagt agcaacataa tatgatttca aaattcaata 180
atattttaca aggagagaac atatacacta tacataattt aaaaattgtc tcagcaaagt 240
atgcatacaa acttgtcaaa ggaccattca aaggattatt ttacttact attgttgtca 300
agacaatcaa taacatatcc attagcattc ctctacacta ttctgagttt ggttcaatgg 360
aaactctagc tcacaggtg gatgatagag ttgtcttaac at 402

<210> 32069

<211> 493

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32069

gtccggcgat ggttcaaaac gattctccac atccacaaat cacgtataac ccaccatccc 60

ctgtttccca cctccaactg agctcacgta ctcccacgta gcccttatca ttgttctct 120
 caacgccggg tccccatcaa tcttcccaag ctccacaac atccaagtaa tttaacattc 180
 aatcatcaca aactaacaca gccaaagaaa cagggcaaag gcagaaaact ctgccgaaaa 240
 cacaaccaa catcacagct ttgcacattc aattaccca gtaacattct cttegttcca 300
 gtttgttaac cgttggatcg actcanaaat tntactggaa gtctctagta cataagtcta 360
 cattntgacc gttgggatct gctagaaaat gtccagaacc ctatatgtac taccatnttc 420
 acaaccagcc atacacanaa cattttctgc acttataata aattctggtg cacattccaa 480
 cagcaaaaac aac 493

<210> 32070
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32070

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 attgcttttg aagcatgcct aactgtccac aatgcccaac acgagcacia gtgcagctca 120
 cacacatata cacacaaaca tattctttga taagtatagn ttatattgct tttaatttat 180
 gatacttatt tgaattatat cttattattt ttgtaaggct actggggtag gctcaatagc 240
 ttttcactct gatggaaggg ccctatttac tggacatgaa gatggtttga aggtaaaaaa 300
 agttacaatg ttagattata taaattatta atgcagcatc tagaactgat ttaagatgtc 360
 atttctatgt tctgatatgc tgtaggtgta ttcattggaa cctgttatat 410

<210> 32071
 <211> 540
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32071

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 acctactagt tatatatcag agcataaatg aggaaattct gacatgctag gatgtaatcg 120
 atggatgaac tgcttttgta taggatgggt caatggaaac atgcttacia tgaccttgga 180

acactaatgc aaaatgatgg catcaaccta ctttaggtat aatttgtttg ttccctttct 240
 tgggtctcatt ttaaaacccat ggatcacatt cgaatgaccc agcaaaacaa tattgtccga 300
 cacttatcag ttgaattttc ctaccataat tataagttct catatatata caccacgca 360
 tgatgtcaac attcatgtta attattgcaa tatttttaa at cttttacca ggaatcantt 420
 ttctctactt aatataccca ttntaaaaag aatgcgccat aaggaagtcc attaacttca 480
 tcttttttac ccttacactt ttctttegct cttatcaatg gtcgttctac ccgaaatatg 540

<210> 32072
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32072

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 tgaagatgac gattcagatg taagtcagat gtagctcagc aggcagcacc cttcaaataa 120
 ttttctgaaa agatactcaa tattgtcact atatatgtca ggtatgcttt gccaaaattt 180
 attgtcattt tactaaaatc ctttctgacc taacatgaaa gtgttaaaag gtgtaaaattt 240
 ttttctgac ctaacacaat acaaactgcg tgaaaacgat gtaatagata gtctctaatac 300
 ctctcagtct ctcatagggc agatgggtgtg tttagtactg agtaggaggg gcagaaccat 360
 tntttttaag acaaacaagt atgtaataaa aatgttatac atataat 407

<210> 32073
 <211> 501
 <212> DNA
 <213> Glycine max
 <400> 32073

cagaccctta ttccattttt ttaaccaagc cacaactaag tctctcgtaa cccattatct 60
 ttggcttttg ttgttacttc ttctcactt cctctctgca cattttttgt ttctaatect 120
 tctatttagg tatgttttta tggcatttaa atacttagta tttcttttat tatttgatta 180
 gtatgactga acatgatgat tatatttatt tgctattggg tgtttacggg tatgagtttt 240
 aaactcaatt attttgatga tatatgacta gtgggatgta cttttatttg gttattatga 300
 atgactttct ggattatatg acattctatg aagtattata tttttagtgt gatgaatggc 360

tatgatatct tgtttgattg gtttctattc tcatgtattc tggctatatt attatgcat 420
 ttgaacaatc taactatttc ttatttgcac ggtatgggtg aacaagtatg ctatttcgct 480
 atgtggattt atagctaatac t 501

<210> 32074
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 32074

tgcttgggat tttccttctg attctgttta tacatttatg actttatggc ataagatgaa 60
 attcaaagat tggatctctt gttagtgtt attaatgaat agcttaaaca cttgtgcttg 120
 agtgaaacag tagtcgtgag actgtggtt aagctgctt ccttaataac tgtcttatga 180
 ttaacttcat ctaatggtac aacttacatt ttattcttct ctatgcatag ctgcatattt 240
 tgtgaaaaac aagtgatgag tagatattgc ttcatttttc ttatcatgca atcaataatt 300
 tttgctgcat acacctttgt acatgatcac tgcattgtat tgtcacttga ggacaagtga 360
 gttgttctct ttttgcctga ggacaagcaa aactgt 396

<210> 32075
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32075

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 agaaggtttg ttcctaattt ctctacaatt gcctcacctc tcaatgagct ggtaaagaag 120
 catgtggcat ttacctgngg tgaaaaacaa gagcaatcct ttgctttgct caaagaaaag 180
 ctaactaagg cacctgttct agctcttct gacttttcta aaacttttta gctagaatgt 240
 gatgcctcca gagtgggagt tggagctgtt ttgttacaag gtgggcactc tattgcttat 300
 tttagtgaaa aacttcatgg tgccaccctt aactaccctt cctatgataa agagtntat 360
 gccttaataa gagcactctg aacttgggaa cattaccttg taccctanga gattttcatt 420
 catagtgatc atcaatcact taagttcat 449

<210> 32076
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 32076

ttgcttctcc cccattttct tataaatagg gggagaagtg aagaggaatt tcgttcagcc 60
 ctcttggttaa ttcagaatca cttaaaatta gtgaaaaaaa ttggttccgt gaagaaaatc 120
 caagccgagg cgcttccgta acgtttccgt gggtgatttc gcgaagggtt tcggccgttc 180
 ttcgacgttc ttcattcggt cttcgtcgtt cttcggtctt caaccggtaa gttccctaaa 240
 tcgaactttt caattcattc tatgtaccct tagtggtcct catttgcttt tacgtgcttt 300
 catttacatt tcctttactt ttcgtacccc cttttgacgt gctctagtca tttgcttaag 360
 ttattctctc gcctaataca aaaatacaat aaatttccac 400

<210> 32077
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32077

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 ggaatgttga gtttaatacc atcaattcgg ttttgtctag gaacaccatc attccctctt 120
 ctctctcttt cttcttcatt atgatctcta ttctccattt gatccaacct ctcatggagc 180
 gcatcatctc gttgtttcat taacctctcc aaatggtgca tcaaagcttg catttggaat 240
 tgcgaaagcc ccactccatc attaggatta gtacctgaca tctcaaaca acaaatcaaa 300
 cgtaacaaga caattatagt tgctggttga atacctcacc cactcaagtg tatcacacaa 360
 ttatggctnt tctctaataa aacactcttg cttttacca ctctaattcc ccttgagttc 420
 ttaagcaatt caagagatta tggccacaac anagaacaat tcaccaatat gt 472

<210> 32078
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 32078

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 gaatgtatgt atacatgatt ttgatgatgt caaaagaaga atcaaacaag gctcattttg 120
 cttcaagatt aatacaagat tgtttcaaca aacaaagcct tgattcaaga tttcttcaag 180
 atcaagcctt gcctcacaat gaaagggttc aagtcattaa aggcacatgt aatcgattac 240
 caatacatgt aatcgattac caatgggttg aaagtgtgta atcgattaca catcgatgt 300
 aatcgattac cagagactct gaacgttggg aattcaaatt tttaatgaag ggtcacaact 360
 gtttaagaca aacaactgtg taatcgatta cactaattct g 401

<210> 32079
 <211> 512
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32079

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 ctgattgtgc aagattttca ctactaatag caggaagata actgtggcgt ccctaaatta 120
 atgactgggtt tgatagtaat gatttaaata acaaaaacca tggtaaattt ttttttcttt 180
 ttctttttca tttctttctc tttccaccat aactagggtt agaaggaaaa tcctcactat 240
 agagtcctga atggccggtt cacaactcta ttcggagtca tttctttctt accgttcata 300
 atctctaaac tattttgctg tttcaaaagg aagaatgtac cagccattac ttaggtcgt 360
 cacgtgaaaa taaaagaata aaatacggtc gataaactct tttacaaata aatttgctaa 420
 tgctttcttt tcacataaca agattgatca taaatgcatt cgtcatttac agctgtccaa 480
 aatatgggag tttacanaat acatagtgtc at 512

<210> 32080
 <211> 404
 <212> DNA
 <213> Glycine max
 <400> 32080

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 attcttaat ccgagtgtga tgtgcagagt cctcatttgg cttccttttg ttattcttga 120

tgtcacatat gattccaagc atgaactcca tctacaagtt accaaggaat cagtgtgtgac 180
 ctgtgcgtag aaaaaatagt ttttttcccc cttttattat aaaacaaagc attctcactc 240
 ttttactatt tttcttttca ttgtcatctt cacaggaagc cttcaactta tttgatgtat 300
 tctgaacact aagaatgaaa tctttcatgg cagctggatc atcagccctt aatttcatcc 360
 cacaacctat tcagacacat aagataaaaa taagtcagag atgg 404

<210> 32081
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 32081

gaaaacactg acatttattg tgaaagcatg gaaagaagaa ttggtggcag tggcagaggt 60
 atagaaatcg gatcattact attagcgtat tgataaagaa atctttgaac aaatactcca 120
 tatgggaatc taacaaataa aaaaaaaaaa cagaaaaaga ggagggtgaa tgttaccttg 180
 aagcaaccac tttatcaaag gcactaatgt cagcaaacac ttctattata ataatcacac 240
 aaatacacia taggccagcc aacagaaaac atatttatag ggaagtgtta atgttggtgc 300
 gtgttttatt ggtaaactat atatatacga aagataacaa aattattcgg atccagaccc 360
 agtttttagg acctccaacg ggaacttaaa taggcacata tggttatgca aaaatactaa 420
 ataattaata attatc 436

<210> 32082
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32082

tagcttgaag tgaggaagtg tggaaggggtg agacttccta cttttattcg ttgaccacag 60
 agtggtacct agagatatgt cgcaggggtc aggagacctt gnggacgtca ggtgggggtgc 120
 tattgcccaa aaccaagctt gaccaatccc gacccaaccc aggcatagtc agtcagttag 180
 aacctgtgat gtacctaaac aggcgagctc ctggcagtc accgataaaa gaacaaagac 240
 cacaaagcaa ggaggcttat gtggtgggtg gccagctgtg aatcttgagt gatatatggg 300
 atatggcctc tggtaatcga ttaccaaggg tgggtaatca attacaaggc ttacaagtga 360

aggcaggaag ctaagatggc ctctggtaat cgattaccaa

400

<210> 32083
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32083

agactggaaa gcggtttcta atgactcctc tgcggcttcc acataaggca tagaggatgg 60
gcagctcacc aagatgtctt cctcgcttga tacgatgacc agatgccctt ccactacgaa 120
tttcaacttt tgggtggagtg ttgagggaac aacccccact gagtggatcc acgggcgccc 180
caatagacag ctgtaggggg ggtaatatc cattatttgg aaggtgactt gacaggtgtg 240
agggcctatc tgtactggga gatcgatctc tcccctaacc tctcggcggg tgccgtcgaa 300
ggcacgaacc accattgaac ttggctttaa gtgggaggca ttgaatggta atttctccaa 360
agtgatctta ggcacacgt taaactgga accattatcg atgagcactt tggctacgat 420
atgggtccata cacttgactg atacgtgcan agccttatta tgccct 466

<210> 32084
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32084

tagcttatca gacatcattg tttgtgacgc ctatcttatt tttctttctg cattttttgt 60
gtccttgtaa atttccgcaa tgtaattct ataattctat ccgaatttct tatttgcata 120
tctctagttt tacttaacct ttttcgggtg ttttgtacct aaattgtatt ttagaatgtc 180
ctctttgatc tcaatttgga atcgctcctaa ttcaagttat gtaggctgag aaacaaataa 240
aagttaagat acgtttccag ttcaattggg gtgcgaatct catcttaaaa nttatccaaa 300
ttgaanaagg caaggcggtt cacatcaatt tgatatatat cttcttatag ctntttattc 360
ccttattata tcgaacatta tattctcttt c 391

<210> 32085
<211> 448

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32085

ataagttata gtagtgattc ttacttgatg aaatgtgaga aacacttcta ggtgtgaatc 60
 ccgtacattg tgccaaacat tgtaaatgaa ttgtgtactt ggtcatatgc ttcgcggtta 120
 catgggagtt ggtgtgggat caattctttc aacgtgttgg gtcttataga tctacctaca 180
 gtcggacata gaagtattga agtcctctgg atgagggttaa gaacaattgt cccaaactac 240
 taactcaata tcgtcactta tctgagccat ataatggctt agaagaatga caagtgcctt 300
 tntgttatat ttggtcttta gctaattcaa tgttcttgaa ttgtgcactt tcattaatat 360
 agaatatcca tttttgtgga cntaatcatg acaccacta cgcattaaat ntgcaacata 420
 tttgatgatt ccttcacttg tatatact 448

<210> 32086
 <211> 379
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32086

agcttggttc cttttattgt ggatgtgtaa gtgcaaataa taacaattgt cccacttgag 60
 tagcatgcca ctgagtacag gttgattctt aagtctatct ttatcatttg ctattcacta 120
 accacctttc actgtaacta taattattct tatgatgagt tgattgatac ataaactgaa 180
 tgcatacttc ttngttgag atatgagtac tatatctctt ttcttaaaac actaggagtg 240
 gtatgatgag tgattagatg gtctttatgg aactgaacat gtcggacgac attgcacgcc 300
 taatggaaat ctatgagatg catcttgaga atgtggttgc ttcttcctat caactctaca 360
 tctatgtgtc tataataat 379

<210> 32087
 <211> 291
 <212> DNA
 <213> Glycine max
 <400> 32087

taccatcaat gagggcttgt ctacgaacac cagcagtcctc tctggctctc catttttcat 60

cattatgac tatgttctcc atgtgataca acctgtcatg gagcgcatca tcttgtggct 120
gcattagcct ctccatatga tgcatacacag cttgaattag gaattgacgac agctccactc 180
catcattaag agtgttccctg ccattctcaa catacaagct gagcgctcgca ctgaagatca 240
tagctagtgg ggagaagacc tcacccactc aaatgtatca caccattatg g 291

<210> 32088
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32088

agcttagttt aacaaaacaa catgtgcttg ctaagcgaac acatgcacat tgagcgcata 60
gcataatcag acaacaaaca acaacaaaca tttgcactta aatcaactaa cacaaatatt 120
catagagtca tgagcataac caaatcaac ctaacatcaa cacacaaacc aactaacaca 180
attattaaac aagttacaga aaagaggaga aagacacaaa ccaactaaca caattattaa 240
acaagttaca aaaaagagga gaaaaagggg agaaatcctg ggttgtctcc cactaagcgt 300
ttctttaatg tcattagctt aacgggtcaa atgacttcaa gacggcatga aggtcacata 360
gaacacatat tccttacatt ntcacttctt agctagagac tccatg 406

<210> 32089
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32089

gtagcattcc ttggtaaaac taactttcca aatgtttgcc ttcgcaggaa atggccccga 60
ggaagcttgc ctcaaagagg tccaggaagg ataaggcggc cgaagggact agttccgctc 120
ctgagtatga cagtcaccgc tttaggagcg ctgtacacta gcagcgcttc gaggccatca 180
agggatggtc gtttctccgg gagcgacgcg tccagctcag ggacgacgag tatactgatt 240
tctaggagga gatagggcgc cggcggtgga catcactggg taccncatg gccaaagtgc 300
atccagaaat agtccttgag ttttatgcca atgcttggcc aacagaggaa tgtgtgcgtg 360
acatgaggtc ctgggtaagg ggtcagtgga tctcgtttga tgccga 406

<210> 32090
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 32090

agcttgtttc tgtgtataat gacttcattt acatttatcc tatagaattt tttaaacttt 60
 agtagcacag gaattcaaatt taaattgact gaaacaattc aagaaacctc cttaaaatat 120
 atgcattatg attcttgaac aagtaaacad tctttcctcc taggatagta ctattggagc 180
 aagaccaagg tgtaagtaaa aatgcttagc aaggtagatt acaattagca acgttttaaaa 240
 tcaagtaaaa taactcattc aatcaatatt ttcagcaacc aatgctaaag tttaaatatg 300
 gcaccacgtt attagttagt ttattttgtt aaaatattcc tacaaatatc atggatatgg 360
 gtttttttgt ctatatttcc tcttggtga ttcatt 395

<210> 32091
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32091

gtattaatct tgaagcaatg cttaaccttt gaatgtttgt tgaagtaatc ttgaacgcaa 60
 ccttgtttga ttattctttg gcatcattaa aatcatgtat taatacattc acatttggtg 120
 tccgacaggt acttcactcg ggatgcaaca acacaaacta tcaactctaaa gccaaacctt 180
 gagtttgatc agaattgatg catgcttttt tttttttgct ttaaagacat gtatgaaaac 240
 tcacgtctct catccaaatc agagtatgac aaggaagaca cattcaatca tacgtgcatg 300
 gtaaaatctt gcgtctagta aagatctaaa attcaatgat taacatattt tcttcctgag 360
 gcaagaagga gatgacgagt tntataagag ccttattgat agcatccctc ttattccac 420

<210> 32092
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 32092

agcttttagtg cacacaagta catatcacag gtgaagcata aaattgctca tgaaagtggg 60
 tgtttaaaag agctttctacc aggtttatct tatcatataa gcacttaagt agaaaattga 120
 aggtattcag ttaagattat gaaagttatt tatgaccctc ctataagctt actgaatcac 180
 acacttatga cataagcttt catctcattt tcatgcgata ggctttgctg aaataaacia 240
 ttaaattggt tatccaaact tgcccatca aatgcacaaa actgatcttg aaatgcacag 300
 tagagactca gagcaaacag aaagataagt aaccttctaa tacaatgttg acagtctgac 360
 agcatgaaca tttgacatgt ttggcacctc gtggatatga aag 403

<210> 32093
 <211> 534
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32093

tcgaggtagg tggcattctt cttagctttg cttttgttat gcactgtatg tgtagcattt 60
 aaggtaggtt agttgaacct tatgatagat gaaccttagg gtagaggacg ccggaaaaaa 120
 tggcggaagc ttggtgacgg tgagccttct ggaagacctg ttaggggttc ttccgaaact 180
 tctggaagaa gatcttccaa acgatttccg gaagaagagt tcttccggaa gtaatgaaac 240
 gacttccgga atgacaggtc ttccagaaag ttctcagaac acctcttccg gaatgttccc 300
 ggaagatgta tttcttccgg aaacattccg gaagaggatt ctttccggatg acctttcagt 360
 gggtccggaa gcactntccg ganaaccctt cttccggaat gtttccggaa gaagtacttc 420
 ttctgggaag ttttttttct ttttaaataat tgtctttgtt catcgcttta gcttattttt 480
 tatatcattn tagttgacta tctactaca ttattaattc taaatactta tgta 534

<210> 32094
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32094

agcttgtctg ccattattga cngaaggcac agaagacgac gttagtctct gcgtgttattc 60
 aagcttttcg tcttacagat agcaaaaagt ttatacggat aaccactcgg gtatttccccg 120

ccgtcagcgt gactcaaaag tcagtatgac agatcttgtg agtgcggaag atgatgtaaa 180
tctccgcatg tcaacgggct tgtcggacgc gattgacgaa ggtcgcaaaa gacgacgtta 240
gtctctgcgt cttatcaggc ttttcgtctt acagacatca aaaagtttat acggataacc 300
actcgggtat ttccgcccggt cagcgtaact canaagtcag tatgacagat cttgtgagcg 360
cggaagatga cgtaaattctc cgcgtgtcaa c 391

<210> 32095
<211> 501
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32095

ttgatggggc ctatgcaggt tgaaagcctt ggaggaaaga ggtatgccta tgttgttgtg 60
gatgatttct ccagatttac ctngtcaac tttatcagag agaaatcaca aacctttgaa 120
gtattcaagg agttgagtct aagacttcaa agagaaaagg actgtgtcat caagagaatc 180
aggagtgacc atggcagaga gtttgaaaac agcaggttca ctgaattctg cacatctgaa 240
ggcatcactc atgagttctc tgcagccatt acaccacaac agaatggcat agttgaaagg 300
aaaaacagga ctttgcaaga ggctgctagg gtcattgcttc atgccaaaga acttccttat 360
aatctctggg ctgaagccat gaacacagca tgctacatcc acaacagagt cacacttaga 420
agaggcactt caaccacact gtatgaaatc tggaagggan gaagccactg tcagcacttc 480
acatctttga agtcatgtac a 501

<210> 32096
<211> 488
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32096

cgcgccnncn nggccgtact gttatcacgc gancanctcg gaccggggag cctctctata 60
gatcctgcat gcacgcacgc ttgttttttg ttacgaccg cagaccgggc gggtaacgatg 120
ggatgtcgag ccacatgcac aagcctatca cgccacatat tccaccattc cacttttgcc 180
acctaacatc aaatgtcgga cagtcgagtt cttgaacgag acctacgtct tatcttcacc 240

aaaccctccc aactcatcta cttaatacag tatatatgat gacactccta ttgaaatcgt 300
 cttacacatc tatgtcccat gaccattctg ctacgaactgt cttgatgtca tgcattgttc 360
 gaccggattc tgagcatatg acggtcattc ttgaaatcag tgtgatgatc gcgcaacctc 420
 ctgcatgatc tcattctagat gatgctcatt cttctgacct atgtgcacat actatctctt 480
 cacacacg 488

<210> 32097
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 32097

catggctgaa atggcaacat agggcatgat cacatcaata gctaaacact ataacagtag 60
 ttaaagatta acacagctgg aaattgctgg agttcactta aaagatggca gaaaagtttag 120
 cagcaataac atgtcactga acagtcggca atagttgtag attgccagaa gttgctggca 180
 agtcacaaaa aaggcatcag aagttgctgg aaagttgctg aaaggttgcc tgaaaattca 240
 aagccaaagt gatacgttgt tggaaaagtt gcagatgggtg ataacttgct agaaaagttt 300
 tacgggtgtg tggatcatgg caacggtaac ccacaggggtg acagaatgca ctggaagaat 360
 aaaacaacgg aggagaatgg 380

<210> 32098
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 32098

agctttcaat ctggctcctg cttcaagctc tggctctctg aaatcttcac acagcaaaat 60
 ctctcaaaac tctctggaac ttggaccttt ctctctctag aaaccctaga catgcaaagc 120
 tctaaatccc agtccaaact ctcttcacaa aatctgattt caagcttaaa taggtggcct 180
 tgtttgtgct tatgcgctaa gcgcacttat ggaccgctta gcgcacatta gtgaatttcg 240
 gcttagcacg tgcctttctc gcttagcgga tgaactgaag cgggtgcactt agtgagatga 300
 agcgggtgtg tgtaagctcc attggagctt gtaggcctac gatcttcac aatggattcc 360
 tttgcttctt ggaagatgag tggcagcgga atgga 395

<210> 32099
 <211> 296
 <212> DNA
 <213> Glycine max

<400> 32099

gtttttgtga tgatgtttgt gatgtttata tgctgaaatt gctgatggaa atctgttaga 60
 gatgaagggg agaattaacc taggggttaga aagtgagaat gtgatgttgt gagggtgaaaa 120
 agagtgagggc ttgagagttg gaaggctaag tctgaattct gtggtaaagt gaggttaaag 180
 tgagttaata ctagcttgaa atgtcattta gaacatgtga gaaagggttag gctgagctag 240
 agagaaaagc aaatgaccaa agtgaaccaa gagccatttc tagggcaaaa ttgggt 296

<210> 32100
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32100

ttttgttaaa tcttaattaa aaaggataaa atataatttc tgtacccta ttttttcaa 60
 taagtaattt ttatttttta ttttttaatt gagacatttc ttctcttact tttaaaaatt 120
 cattatttta attctcattt ttatttgata aattttgtcc cccaatttta aaaaaaaaaat 180
 ccacgatttt agtttcatga ctatcaaagg ttggctatgt attttttata atttttttta 240
 taaattaagc ttattaataa ttaattaatt ttaaaaaaac ttctttcaca tgactaataa 300
 tttagatata agactaaaat catttttaat tgagacattt cgtctctcac ttttaaaaat 360
 tcactattnt aattctctct tttatttgaa aaat 394

<210> 32101
 <211> 525
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32101

aatctccttt gacatcagac aacttctttc gccacaagc tgactcagaa attggggggc 60
 ttatgtactg tccaatgtcc acaaaagggg catgacaagt aacatgatgc ttcaacacac 120

acgtcaaccc tccatgtcag ccttggaaca ggagcacaaa cgcattcgccc ttagaaatta 180
 ggctactgga ctgacaagtt atctctaaac actttaatat ctgaatatta ataataatgt 240
 tacaaccttc ttattattaa gtggcgggta ctcaattatc tataagatat gaattatcta 300
 taagtaacaa cttatctact agctattatc tacaagttag aaattatctg ttaagggtgt 360
 tataccactg taacagctca taaaaataag gaccanaaac tctcatctca ctctataaat 420
 atcaggttct atctcaccat ttctattcaa ttctaaacta actcacgtac ttacttgaac 480
 gtcagagtcc ctttggttgc aagtctccct tcgtnngtct ctaat 525

<210> 32102
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 32102
 ttgcttatcc tatgcttctt tggccgtcgt tgcattagat atcttctcaa atgtatcttc 60
 atccaccgat tgataaatga gaaagagagc tttcttgtct ctctttcttg actccttcaa 120
 cgtctccttt acaccttgac ttagcgaggc ttcattctgc tctcgaagc cattctctac 180
 gatatcccac acatcttgag ctcttagtag cgccttcate ttgttactcc aattatcata 240
 gttgttcttt gtgagcatcg gcatttgga aggaaaacct ccattcgcca tcttttgagg 300
 atcttgaagc tctgatacca atttgttga aataaggctt tttatgttta ggaaaagtg 360
 ttaagaatat tggagactct gaatagaaac ttgatag 397

<210> 32103
 <211> 532
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32103

caattacaat gttttggtaa tcgattacca gtgtgcttga acgttgaaat tcaaattcaa 60
 atgtgaagag tcacattttt tcaaaaaaaaa gctttgtgta atcgattaca ctgatttggt 120
 aatcgattac caatgattgt ttctgaataa atcaaaagat gtaactcttc aaatggtttt 180
 tgactttttc aaattggttt taagtttttc taaaagtcac aactcttcta aatggttctc 240
 ttgaccagac atgaagagtc tataaaagca agactntgtt ttgcattttc aaaaaaaaaa 300

aaaaaaatcc aatcattaat ctacacatct atcttttcca attcattctt tacacaagca 360
 attnttccac attgatttct aagtctcttt gaacttcttc ttcttccttt tgccaaaagt 420
 tttccaaagt tttctagttt tctaaacctt gaaaacttgn gttattcatc tttntcatct 480
 cttctccttt ntcaaaaaga attcgtcaag gacttaaccg actgaatatt tt 532

<210> 32104
 <211> 405
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32104

ttgctttatg atgatgaatc aagttgattc aagtagtttt gataatgaca aagatgatga 60
 caaaaagccc aaagaatgat ttcaagatta agtcaacaag ttcaagatca agtttaattt 120
 caagagaaga aatcaagaag attcaagaat caagagaagt ttgatttcaa gattcaagag 180
 aagatgaatt caaggttcaa gataagaaat caagaagact tcacaaggga agtattgaaa 240
 atatTTTTTc aaaaaaaac aaacatagca cagttttgtt tttcaaaaga gtttttctca 300
 natTTTTctag gttgccaaag tttttactct ctggtaatcg attaccagtt tcctgtaatc 360
 gattaccagt ggcaaagttc aatttcaaaa gttntcaact gaatt 405

<210> 32105
 <211> 494
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32105

cacattaggt ctttggttta tggttttaat tattagcttg acagttcatt gtgatgacaa 60
 gctgtattct gtgtgttttg tcttgtagt ctctacagt ctttcattcg ccaagttggc 120
 aaacataaaa tgagtttgaa gagttgtgtc ttatTTTgtg ttcgtactgt gacatcctgg 180
 aaatttctac ccggaatttt tggaaacaat gtatTTTgaa tgattatata tatatatata 240
 tatatatata tatatatata tatataagta ttattcagtg tatatgcata tatgttcttg 300
 atagaagtag gaatagtgcg ggcaagatat gcgggttatg ctaattaacg aagagatac 360
 cataactgtg aggctatggg ttaattctta attaattagt ttagaaatca ttggtgtgcg 420

tgtgacttac aatataacga gaccaacctc tgaaccacgc tgcgggttgt attctgaacg 480
ctntgatata tata 494

<210> 32106
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32106

tagcttgttt caaagaaaat ttgtcccaa ttttggggag taattatcaa ggtaaatttg 60
ttccaaattt ggggcagaca ttgngtaaga attgaaatgg tcaaagtaaa tggaataccc 120
acactaattn tgtatatatg cataatgttt ctatttatig tgtcaaaaaa aactgtaagt 180
acaaatgaaa ttaataagtg tgtatgttgt aattccatga atgaaagctg agtgcctaaa 240
taaaaggcaa gtatgggggtg ggaatgaatg aaaaagtga ggtttatcta tggatgaatg 300
ctctcctaga acctaagctt ttgaatccta gaacaaccat gatttggttg cagcctaacc 360
ccattacaag cct 373

<210> 32107
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32107

tttaatggat tttcaagggt tgagaagtga aattgagaat ggggtaaatt tggagtaaaa 60
ccttacctca cacaagtcta taacatcaat ttaaacttgc tcaactggat ttacacctaa 120
aatttcaccg aattaaaatt tgactcctca acaccaatt ttatcctaga aatcgctctt 180
tgttcacttt gggtcatttgt ttttctctct tgcacaaccc anactttctc ataagtecta 240
aatgacatth caaactagga ttaactccct ttaacctcca aataccacta aatccagaat 300
tggccttcca aatctcaaag tctcactctt tcttactca caacaccata ttctcacctt 360
ctaaccctag ggtaactcta cccttcatct ctaaacagtt tccattagca atntcagcac 420
ataaacatca caagcatcat cat 443

<210> 32108
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 32108

tagttgcatg caaaagcagc actggattaa gtgactgcag gcttagccca acatgtcgca 60
 ttgagcccat atcctcattg tgaaaacaat gagcttagcg agtattgact cgctgagcgc 120
 tttcaagaac ttccaattgg cctcttttct tctagatgct cgccacgtgt ccttccttgt 180
 tgtgtttctc gtgcttagcg cgtacaggca cgctgagcga gctactccaa cttcaaaatc 240
 ttcaattctt cttttcctac aataaaacat taaaagctaa taaaatttct tagaagttaa 300
 agacactaaa cttactccta attaatagtt atattagcat aaaagtgatt aaaacaaagt 360
 tctaagtaat gaaaaatgta agataaatgc taag 394

<210> 32109
 <211> 512
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32109

caatthtttca tgtacaattg tacatgaatt gttatgttat gctattcttc ttccgttgtt 60
 agtgcatact attagtatgc tctttatctt tcattgtttg aggttctgat agagaattag 120
 ttataaggat agtttgggtg ttgaaggaaa aagaaaagaa gaagagggtcg tgggttcaaa 180
 atttaaattc ctctactaac aaaaaactaac aaattattaa cttaaatttg tctttctggt 240
 ttaggaaatt ggctagttat atgagttcaa tcaagacatt gagcatgcta aatcatcttt 300
 agctgaactg tttgttcaat taagatgatg agacatttag agtatcggtt tccatttcaa 360
 gcctctcana attttattct ttaaaaatac aagtaatggt gtacgttttt tgtcgccaag 420
 ctaactaac ttattataga taattcacct tcaggtagta agcttatagt ggaaaattat 480
 gaatgcanac ttcataaaca ccatcattca ca 512

<210> 32110
 <211> 158
 <212> DNA
 <213> Glycine max

<400> 32110

agctttttatc tgttttttgca acgctccaca tgtttctttaa atggtgtaat caattacact 60

atatctgtaa tcgattacca gtgtatctac acgctgaaat tcaaattcaa ttgcgaagag 120

tcacattctt tcataaaatg cattgtgtaa tcgattac 158

<210> 32111

<211> 347

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32111

agccccgtag nggtgtgctta aatgtctaaa ataaaagaaa aattatgtaa taatgcctct 60

ttgccgaaaa ttttatcagt gaaaataaaa tattttgcat ccgaatcttt gccgatcctt 120

ccccacccc acctcctntt ccccccccc accctcccct ccccccccc cctccccccc 180

cctccccccc ccccccccc cccctctctc cccctctccc ccccccccc ccccccccc 240

cccccccccc tctccccccc ctaccccccc ccccccccc cccctcccc ccccccccc 300

ccctcccccc cccctctctc ccccccccc cctccccccc ccccccc 347

<210> 32112

<211> 547

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32112

agccgaacac atcganggat tgattggggt ccgaagtaac aatttggcaa tttnggntaa 60

ccggaacaat tggcccttc cttgcatttt caaggcttgg ggaaaattgg gcgaggtgga 120

gggaacgccc ccgccattta cgcaacgagc ataatgtaaa cctttacggt tttaaagct 180

ctatagttgg gcctaggctt tagagntttt cctattgtta aggctttgcg tcctttgctt 240

cctgccctat cccctctgca ctcttctttt tcctttctgtg tgtctctccc ctcttcttc 300

acttgccggt tactctcttt cctgacctcc tgactctgcg ctccctccc gtgctgcttc 360

tcacttctct tcttgcttcc tccgcctgcg tctcatctct atcttactcc ccactcctcc 420

tcctgtggtg gtggttgag tcgtctctcc cctcctctc ttctctctac ctctctcttt 480

cctctgacct cctcccccc ctctcttttc ttgtccccgc attcttccat ctcaatcctt 540
 tgtccccg 547

<210> 32113
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 32113

agctttgatt cctatgccta gggatatgt ggggtaatca ttctagccct tatgaaacta 60
 catacatgct aaaaaatggc aaacatacac ataccaaatt gtttcatagg ttattcccca 120
 caaaatcatg cgcaaagcc atcgaggcat ttcaccgaac acttggtggg catatgttta 180
 ggcatgaatt gtaggggaat ggcggcaatg tggcatgccc aaccttttca aaacacaact 240
 tacgcctaag gccattgcct acaac 265

<210> 32114
 <211> 223
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32114

atgacaaaag gtgcagaaca cgacgttagt ctctgcgcgt caacaagctc gttttccnct 60
 ggttgacgaa agatgcggaa atcaattgcc aaaccgggtac ccccggccta ccaacttgac 120
 tttcccggtt caggggttaac agcaattggt tgtacgaata atcgcttgcg tatattcgca 180
 tgtcaactgga ctccacgggt ctggatggca aacagtgtag acg 223

<210> 32115
 <211> 330
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32115

gcnnatagcg gtcatttaag cagaatgcag gggaaacact taaaaccggc ccgcgcaata 60
 ccctaaatgg ataacaattg gccctggncg acccctaacc cgcccccccc ggcccccccc 120
 acatcacct cctactcccc cccccccct cctcccccc cccaccacct ccccccgccc 180

ccaccccccc cccccactca cccccacccc ctcccccccc cccccccccc cccccccccc 240
 cccccccccc cccccccccc ccccgcccc cccccccccc cccccccccc cccccccccc 300
 cccccccccc cccgaccccc cccccccccc 330

<210> 32116
 <211> 233
 <212> DNA
 <213> Glycine max

<400> 32116

tgcattagat ttttgctccc tcattgaaaa ttaagctaac tttggatgac taccaaaatt 60
 ttttagacat taatgatttc ttaattatta tatataagaa caatttgcca tccaaaaact 120
 aatatattgt ttaaaaataa tccaacgagg caacgataag aggctttgac caaaataaat 180
 taacatgagg ctatggagga agcagcagag catattacgt taagactaac tta 233

<210> 32117
 <211> 497
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32117

ccgccccgcg gcgcggnngg tgtacatgct actctaggcg agtcgagctc gtacccggga 60
 tctctagagg cgaactgcgg catgccagcn ttgctcaaag ttggccagga aggaccaggg 120
 aggccgagga acataagttc ggtccggagg atgagcagga acggtttaag aaggctgggc 180
 cccaccaacg cctttagggc acccaggcgc cggctgcccc ccccgaccc acccctccaa 240
 ctaccccccc cccccctacc cccccctccc ctccccact tccccccccc cctcctccct 300
 cctccccct atccctccct gccccctat cccctcccc tctcctcctc cctccccccc 360
 ctccccctc cctcctccc cctcctccc cccacacctc ctcaaccccg cccgcccccc 420
 cctaccccc cctccccctc cgtccccact cctccgaccc cctcctccct cccccctccc 480
 tctcctcgcc cgcgccg 497

<210> 32118
 <211> 148
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32118

agcatagcaa ctagtgggaag ggaatgagag gtgtcgcaac ctacctttcg gcgggaggcc 60
 gacgcgtgac tcgcgncatg cgtgttccac gaaaggaata cgcacggagt cgccaccaac 120
 gttctattga ggaaaaccgc gcacaacc 148

<210> 32119
 <211> 169
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32119

agtttcaaac caaatttcga gaagatccaa cggttaacga aggttgggca gcgcttttac 60
 cgaaacagct catgtaactt ccttaagaag cttcattaag tggccttctc aagaagcttc 120
 ctgcgcgactt ctttgnacac ctttctcagc acgcttcttt gacaaccta 169

<210> 32120
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 32120

ggcatctaac aaatcttgaa gttgaacagc actttttaagt tttgtctgca cacaaaagat 60
 cattaatatca agcaaaagag gtaaaaaaaaa aaaaaatcca gaagatcaaa taaaagtaga 120
 caaatattac acaaacta gaaaataata tcacctcagc tctaggtcgg cctccattgt 180
 atttcaacat taggttttagc agcttttcct cagcaacttt tagcttcacc ttctgtttgg 240
 gagctctatc accactgccg taacacgaga gtcaatggcc agaacaagat gcttaactaa 300
 cttaagcgta aacggcgaca gaacatactg accaacaatca cgcactaccc ccgtacctct 360
 cagattgtcc 370

<210> 32121
 <211> 247
 <212> DNA
 <213> Glycine max

<400> 32121

tgctttctat atcatgtggc gaagaccgcc acaaagttag ttgtattaac cgaaatagca 60
 ttgtgacaac aacaaagggg attttccaag gcccgaattt tttctctect ccgtgtacgc 120
 ccctacaccc ttttccatga ttcatcatcc cttcaaactc aatattgaac gggccatagt 180
 gccagcattt gcaccataca ttacaaaac atcttcatca atattaccac ctgttgcccc 240
 cgcaccg 247

<210> 32122
 <211> 196
 <212> DNA
 <213> Glycine max

<400> 32122

tgacatccac tccacaaggt ttgaagcaga ggacaccttc aatcctatta acgcaacgtg 60
 gcggacaaaa gtgggcaaata taactttgaa tgcgcattat tgtcaatgcg gaaggtatta 120
 tgcgcttcac tatccatgtt cacatattat tgcagcttgt ggctacgtga gcctgaacta 180
 ctaccaatat atagat 196

<210> 32123
 <211> 216
 <212> DNA
 <213> Glycine max

<400> 32123

caactctect accccccggg cctcttcacc cccactgcc catccctcc cctccctcca 60
 cccgccttct tccccccct ccccgctccc cctcgcgcc ctccctctct cccctccgc 120
 cctccccccc ccccgccctc cccccccctc gccgtgcccg ggaccccccc cccctcccc 180
 ccccccccg caccctctcc tccgcccctc ccccc 216

<210> 32124
 <211> 77
 <212> DNA
 <213> Glycine max

<400> 32124

tttctttgga ctttatgagt ggcaagttga ggtctaagt gattggctct ttcgctgcta 60
 ctaatgcttt tccttat 77

<210> 32125
 <211> 209
 <212> DNA
 <213> Glycine max

<400> 32125

ttctgataaa tcaaaagatg taactcttca aaaaggttct gactctctta aatggttttt 60
 aagtttttct acaagttata actcttctga aggggcttct tgaccagaca tggagagtct 120
 ataaaagcaa ggctttattt acattcaaaa aaaaatcttg aatacttttg cttttcaatc 180
 aatccttaca agcttgaaac tcttgaact 209

<210> 32126
 <211> 199
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32126

tgnttanatt atcgaaattg cctaaatcat tggcaaatat gcatgtgaat taggaagcat 60
 cgacaagaat caagccaagg ctattatgca agcaagcaat ggggccaaac acaccaaaaag 120
 attatgatga tggatggctc gaatcctcac aaagggaaac ttatcacttt caaaaactatc 180
 atgacatgca aaggaaaaa 199

<210> 32127
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32127

aaactgttta cacataagct gcaactattg aaatttgaaa tcttaacatt ntaaaacact 60
 agtaatcgat tactaccttc tggcgatcga ttactagaga gcaacaccct ttggcaacga 120
 tcttgccaca ccccccgctg ctacccctg ctatcgaaca ctttttcacg ccttacactg 180
 cgcccaccct cccctcgac cctccctccc ctccaccca ctccaacgcc ccccccgcg 240
 cccctcccc gaacacctac cctccgtccc cccactccc gctactcttc gcccgcctc 300
 caccaccct cgtctacccc accctctccc cccctcccc ctgcacacgg cgccactccc 360

ccctcgccc tcccccccc tctcactcc cgccaccccc ctccccctct tccacccgc 420
ccaccccctc cctccccccc ctgcaccccc ccc 453

<210> 32128
<211> 402
<212> DNA
<213> Glycine max

<400> 32128

agcttatata agtttacata ttcaaattta tgtgaaaata gaatttaatc ttatatatta 60
tattctacag ataatatata agagtataaa aatataataa attaaaaaag aataaacttt 120
gaattttgaa ctatTTTTgc atacaattta tattaatact atattttgta ctaaattatc 180
aaatggtcac atggttgaaa tgataaaaga gtatgtcatt cactccaagg actgtggttc 240
caatccttcc aagcattttt ttaaacttct tattttctta gacaatattg gtcaattctt 300
tagtgtaatc aatatttaaa atttaacacg aaatgattaa tcaacagaat tctacaatta 360
tgtcttaatt taacatattc attaaccaag atacaataat ga 402

<210> 32129
<211> 517
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32129

aataagtaac atatgtatgg gaaaacacat acaggaaatg gatatttctc accatacaaa 60
cgaaaaaaaa acataagtta ttgtccaaac ccataaatca caccaaacca acacaatcaa 120
agaaaaacac aaccaaataa aattaaaca aataatgaaa aaaaaattaa ggaaaatgaa 180
gaagtgggta tggtgagaaa tgatagaaga ctgacacata tgtgtcctcg ccaattagct 240
ccaacttctc gaaacaaatg atgcttcttt aacccacaa aggagactcg ttcacgttga 300
gttgcccagg ggttgccata gccattactc ctctcgcaa atcctagagg ctcttcttct 360
gcccttaana aacaccgaag ccgaagagta tcgaaagagg atcttttgca tcaagtgatc 420
gaaggagaaa ggcgttgagt taaaaacat gcatgtacac gttacaatgt ttcgaagata 480
cataacactt gatacgaang agactacatt aattgga 517

<210> 32130
 <211> 398
 <212> DNA
 <213> Glycine max

 <400> 32130

 agctttatct tgctcgattg ctccaggttg ctgcatggaa gggcaaaggt ctgtatggtg 60
 gtcaccagag gagcaçaaac cacaaaccct tgcaacaggt acagatttct gattcaaggc 120
 cagctggggtt acgaagttaa ccaatgcac cagtttgct tcaagcttct tagtctcaca 180
 tgatgcacct gagtttgtat ctacctcatg cactcctcta atgactatgg catcatttct 240
 ggccttaaac tgctgacagt tgcaagccat cttctcaatc aaatttctgg cttcagcagg 300
 agtcatgtct ccaatggctc caccactggc agcatctatc atacttctct gcatattact 360
 gagtccttca taaaaatatt ggagaagaag ttgctctg 398

<210> 32131
 <211> 422
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32131

 aaatctgcac ctgtcgcaag actctatggt ttatgctcct ctgacgacca ctatatagac 60
 ctttgccctt ctgtgcagca atcttgagca attgaacagc ctttaagctta tgttgcaaac 120
 atctacaata gacctcctca accttagcag caaaatcaac cacagcagaa caattatgac 180
 ctctccagca acagatacaa tcccggatgg aggaatcacc ctaatctcaa atgggtctagc 240
 cctcaacaac aacaacagca gcctgctcct tctttccaaa atgctgctgg tccaagtaga 300
 ccatacatct ctctccagt gcaacaacaa caacaacatc aacagagaca acaatccact 360
 actganggcc ctctcaacc ttcattggga gaattagtga ggcacatgac aatatagaac 420
 at 422

<210> 32132
 <211> 399
 <212> DNA
 <213> Glycine max

 <400> 32132

agcttgacta ttctcgaccc accccgggca tagtcgggtca gtgagaaact gtgatgtacc 60
 taaacaggca agtccttggc agtcaacaga taaaaggaac aaagaccaca aagcaaggag 120
 gcttgtgggtg gctggccagc tgtgaatttt gtgtgatatg tggattatgg cctctggtaa 180
 tcgattacca acggtgggta atcgattaca aggcttaaaa atgaagacag gaggctaaga 240
 tgggtctctgg taatcgatta ccaaggggtg taatcgatta ccaggcttga aaacgaagtc 300
 aggaaactaa ggaagcctct ggtaatcgat taccagcctg tgtaatcgat tacacagagg 360
 aatgggtcac tggtaatcga ttaccaggta tgtgtaatc 399

<210> 32133
 <211> 541
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32133

cctctcataa ctaagctcac ctcttgaga agcttcctta agaagattcc taaagaagct 60
 agagcttagc tacacgtacc tctctaatag ctaagctcac ctcttgaga tgagaagcta 120
 gaacttagct acacaccccc tataatagct aagctcacc ccatgacaaa aaaacatgaa 180
 aatacaaaaa aaagtcctta ctacaaagac tactcaaaat gccccgaaat acaaggctaa 240
 aaccctatac tactagatgg ccaaaatata aggcccaaac gaaggaaaaa cctattctaa 300
 tatttataaa gataagcggg cttatacttg gcccatgggc tcgaaatcta ccctaaggct 360
 catgagaacc ctagggcctt cccttggatc tctagcccaa tctacttga gtcttctacc 420
 caatgccctt gcgggatagg attgcatcat aacgtatcta ccatanatgc gatcatntc 480
 cttttcatca tgggcgggtac gacttgggct gcgagaatct ctcatttnt tgcatttcc 540
 t 541

<210> 32134
 <211> 401
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32134

agcttatttt atcatgacaa tttgtgtttg catgatagtg taaaaaccct atatacaatc 60

aatgcatgca gtatttgctc tctaataata atctatacaa acattgatag aattcagtaa 120
gacaaaaagc atgactcaca aatgaaagtg ttggcataac tgtgtgcaca tctacagcc 180
acagccacct cacctacatg aacaattcac agccgtacaa tctatcaa atacaacca 240
gttcacaaaa cataaacaac aactgattgg aattaaagta tcaaatcag gttatcaatt 300
gttcgacaca tccaaaccct atgaacaaca acaacaacac gaagccacct ccattcatac 360
atcatataat agctaanaat tccaaggcta agcagaaaca c 401

<210> 32135
<211> 521
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 32135

atcctaagcc caaataactaa gatacaccat aactaacaac tgttctttga tgaaaaatat 60
cataatgttc acacacatct cttagatggc ccatgcctca taatgatgta gtcaaattaa 120
atgtagatga cagctgcatt aatgggggaa agcttggaag agatgtaatt agatcaagta 180
atgggtgattg gtttgatgac ttacacagctt tctatgacca aggtgacatt cttttagcag 240
aatttcttgc tacaagagac aggtcaata tttgcttgga taatgggttg caaggtgttg 300
atatgcgagt tggattcttt ggatgccgtc aaactcacat ttatgactnt ggcagtacaa 360
tagacctaca tcaataggac ccacatcatt acgctgaagt tctttacgac atcagcagta 420
tcattcctaa tcgatggaaa gtggatcatca tgcanatgtt catcatgcat accccttang 480
agaataataa ttgtgctcga ctacatggct anacttgag t 521

<210> 32136
<211> 404
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 32136

agctttgatt ttcatacatt actttacatg cacatgcatg agtcattaat gaatgctcaa 60
agctgtctgg attgaattgg cctaattntt ttgctaaact tgctgcacta ngatgggtac 120
attgcacatg aattgctata caatatcaaa ttctttcttt caaagtaata cacactgagt 180

tgtgattttt attanttgta tggtaacaca tacaattaat aaaaaccaca cacaattgat 240
 tgaattcttg gtcgtcatatc ttgggataac taaaataata tgggtgtttt tcatgcaaaa 300
 taatttttat gctaaatttt agttggatgt gcctttgtag gcgatggctc taaagctctt 360
 tgctataagg gctaagaacg ccaccacagg ggagggatct aatg 404

<210> 32137
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32137

ctgagagaat ttgctgtgtg aagatctgca gagaccacag cttgaagagg aagccgtcct 60
 gagagcttga gatgagtttg tgagtgatta tgaggctcta gaggtggagg agacatcccc 120
 actacttgta tttctgcaat ctttcatctt tctcttctct ttgttgtaaa ggaagctaag 180
 ctttccagtt atggaaagct aaatcctctg ttggatcttc cttgtaggta cttgatgtaa 240
 atatcttttt tatctattta atgatgtttt gtgtgttcac tgtgctatca gaacttcatt 300
 ctaccatgca ttgccttgat catgtagatg catgtgtttt taggatcatt caacagtgga 360
 aactggctctg attcttacia cttgatagga tagggctagt ntgtcatat 409

<210> 32138
 <211> 197
 <212> DNA
 <213> Glycine max

<400> 32138

aaatgaggta ctgaaacagc aatttccata tcatcaagtt ctttcattat acatgcactg 60
 cgaacttaaa aaacaacggt gaattaacta tcatatctgc gccaaacttc tgtcttgatt 120
 ctccgatcta aaaaatctat attagcaatt tctctaatat tctaacattt attgctggat 180
 tattgaggcg taaaact 197

<210> 32139
 <211> 113
 <212> DNA
 <213> Glycine max

<400> 32139

cctttacatg acttctgaag tgaagttaca tccactctat tccaattata aatgggtgta 60
tttaaataac aaatttactc aacgtctatt aagatcttac aatatgattt ctg 113

<210> 32140

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32140

tgcttatttt cttcgtaaaa tattatagtg tcaatggcaa tcattttcaa aattatttcc 60
aggttggttg gcggttatag ataagcatca gcggcaatgc atatcacgag ccaattgttt 120
ttttttttgc tggaaattaa gagataataa accaattata tatatagcag gcttattgta 180
taactttaaa atgtttgtct gataatcacg atcaggataa gatcaatata ataaaaatca 240
aatcaaata tagaatgtaa tataacaaaa tggcttggtc tttgtaaaag gaaaacataa 300
tctttaaaaa aagttagatg aaaaaaaaaa gcaaaaaaac tctactcttg gaccttggtc 360
ctcattctca tttctnccc tctatttgta gagacatatg 400

<210> 32141

<211> 446

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32141

gaataggatg tcaattatgt gtctaccagc actaaagttg cacgaaattt ctacttgcct 60
ttatgaatag ttgatggcca cgcgtgttac ctctaattgc actaaaattc tcaaccagat 120
ttggtgcata tgccgccatg cgtttatcta cacccaaaaa aatacgtgtc aatacacctt 180
ataagtatgt atagtgggct gtcatttatc tggatgaaat ttgaagtgat tattctatga 240
tgataccctt aattagcacc gttgattctc cattataagc ttcagcaaatt tattcgtgat 300
aaaacgttcc cctgatactc tcgtttcatt taaaaaaaaa aaaattaagg attntgttta 360
ctctccgatc gttaatagca agttcatcaa cccttagtgc gagggcccca ccatgtccat 420
tgaagctttn cagcagtacc atgtct 446

[illegible]

<400> 32144

tagctttact ttagattcta gcaatgaccc actaacctag aattaaaata acttaatgcc 60
 attaacctaa ggaattaaaa caaactaaat ggctgagtgt aactgaaatt gttggcaacc 120
 aaaagtcacc cccaacagcc aacaagtcag ccaccatttg gtctcccaa aggctgatgc 180
 ctaggttgcc aattgggccc ttattacaac ttgaactaaa gcccttttag ttgattaacc 240
 caaaacatat ttttagtcag ccaactttac aaggattggg ccattattta cacaaactaa 300
 acactctaaa attgaaataa agtgggtgtca tttagtcctc catttggggc atgatacaac 360
 tcacaacctt ggacttttct tcttgaaact t 391

<210> 32145
 <211> 326
 <212> DNA
 <213> Glycine max

<400> 32145

cgagagctac cattgttcat tttcaagggt ctctatttat aatgccctg agtctgacct 60
 ccgcgggaaa aggtgtgacc attggacttt ctagagagct acgttggtta attttcaagc 120
 gtcgctatat ataatgcccc tgagtctgac ctccgaggta aaaggtatga ccattggaat 180
 tgctcaagag ctaccgtggt tcattttcaa gcacgctat atataatgcg cttgagtctg 240
 acttccgagt gaaagggtat aaccatgcga attgctcaag agctcgcttt gtacagttcc 300
 gagcgtgttg ttatattatg cgctg 326

<210> 32146
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32146

ttgtttatct tttccttcaa catacattgt tgtaacttta ttggttgat aaggaagtgt 60
 caacatgaga aaatgggtcat atttgcttag ccaatcaacc accaccatga tagcattttt 120
 cccttgatgat gttggcaacc cctcactaaa gtcaatggta acatcctccc acccttgatc 180
 tggaattgca agaggttgta tcaaaccaac tggcttctgg gtttcatatt tatttactta 240
 ngaaggcaat tgaatgttta tcttngaga gcaccgcacc tatcacaata tcacttgcac 300
 ctgtttttac agtgaatggg caagaaaatt tgacatgaca aatgttggtg tagacatcat 360

agttgtcttt aactcttcaa aagccttgga agatgactct atccaag

407

<210> 32147
<211> 399
<212> DNA
<213> Glycine max

<400> 32147

ctttccattc accacatata cactcccaat ttgactttta aagagaataa caagactata 60
tttatactgt cagcttcata cagaataaat atgaacataa atctgttaga tagaaataaa 120
tgtgaaatat atatcttttt ttaaaaaaag aactaaccat cgcaatagtg tcttctacat 180
catccttggt tctgcctgcc agacgccttt ttaaggattc aagtgcactc ctaagcttct 240
tcaaaagaac atgtttttcc aatgatgctg cctctctaag tctagcctaa acttcaccag 300
catacaaaaa gctagttaaa acaggaacat caatctatta gtaaactatg aatataatca 360
ttgggtatct cagttgcaaa ccatttacia taagaatct 399

<210> 32148
<211> 398
<212> DNA
<213> Glycine max

<400> 32148

agcttgaaat atgtgttcca ttaaaaaaga aaaaagtttg taatatgtga ttcttttggt 60
atggtaatta ataataagta tagaataatt ttacattttg ttacttttat aattgatatg 120
catattatta atatgttaaa aaaatagtat taaatatcaa gtgatccata aattattatg 180
atgttacaaa aggattagta atatcatttt ataataatat taaataaaag taaaataata 240
ttttaattaa aatatcttac aaattagtaa aaataaaatt attttaaaaa taatatagca 300
ttattatgta aatttaattg ataaatttta aattatcata atagattaga ctaacagaaa 360
aaactgtcaa acaaaacaaa acgaaacagt acaaatta 398

<210> 32149
<211> 501
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 32149

aaacatggta ccagcttgag agttaatcaa aaaattaatg atgcatcttt gtttccgac 60

agtccatgca tcggacataa tagtacaacc atacttgacc cattgctccc tatggccttt 120

catcaaattt tcagtatatt caacttcctt cttcaagagt ggaactctga tgtcatgata 180

gctaggaatg ggcaaagtgt gcccatattg accaatggct gcaaccatgt tctcaaagct 240

tttcaattta atgaggttga atgacaaaacc tgcttggtac caaaagcgag caatatgttg 300

atgcaccttc aatacttcat tcttatccat tgactctctt atgttcattt gcctcagcat 360

ctccattttt ctccgatnga ttgcattntc tggattctta cagaatntgt ccattgggtcc 420

tttttttagtc ccacactttg tctttgcact tgcagcagca ttacaagagt ccgcanactc 480

atcttcttca cttccatcac a 501

<210> 32150

<211> 397

<212> DNA

<213> Glycine max

<400> 32150

agcttggaag gtagtcatac ctcacaaaat gtatatatat gtgtatgttt aggtagaaag 60

ataccttgga tatgcatgta tgtagcaaaa aaatacttca caaaatatat atatatgtat 120

gtttaggtag aaagatacct tgaatatgca tgtatgtagc aaaaatactt cacaaaat 180

atatatgtat gattaggtag caagatacct tggatatgca tgtatatagc aaaaatatct 240

caaaaaacat atatatgtat gttagatat gcatatatat ataataaagg ttgtctagct 300

aaaaaaacaa catgcttttg aaaagagatg acttccaact cttctttgaa aaaatttgct 360

gatcataact agttcttgaa agaattgtgta tacacct 397

<210> 32151

<211> 526

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32151

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ggccatcaag ggatggctgt ttctccggga gcgacgcgtc cagctcaggg acgacgagta 120

tactgatttc caggaggaaa tagggcgccg gcggtgggca tcaactgggta ctcccatggc 180
 caagtttgat ccagaaatag tccttgagtt ttatgccaat gcttggccaa cagaggaggg 240
 cgtgcgtgac atgagatcct gngtaagggg tcagtggatc cgttttgatg ccgacgctat 300
 cggccaactc ctaggatata cgttggtggt ggaagagggc caggaatgtg agtatggcca 360
 gaggaggaac cggctctgacg ggctcgatga ggaggccatc gccagctgc tatgtatacc 420
 gggacaggat tntgcccga ctgctgcang gaggcgagt cgaatcatgc gcaccaacat 480
 gaccacnctg acccagatat ggatgaaggg tgctctcagc aacatc 526

<210> 32152
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32152

agcttcttat ccaatgctca tcttggtggt gaagctcctt ctcccatggt ttattcccta 60
 gtggatggcg cctcctctca aagagcttaa ggaagtagt aatgggatca tcggcggcta 120
 tcgtaaagtg gctaagagtc cgcacacaag gcttgactg gctcccaaag ccaagggcta 180
 tgagagagga agaggccgaa gctccagaaa agagtgagga ggtacaagcc ttanaggcag 240
 agcttgagaa ggcttaagca gtcaaggaga agttcaagtc aacaaccatc aaagtccaaa 300
 aggagtatga tgaactgaag gacattaaca tggccaccac cgaagccttg gaacaggaaa 360
 ccaagagggc ccggaaggaa gaacatggcc aaaacaagtt ccgagga 407

<210> 32153
 <211> 496
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32153

tgtgttttgt atatttctat tctcgtttca tttacttttt ataccctcctc ttgacgtgct 60
 taagccattt tacttaagtc atttctcgct taacctaaaa ataaaataaa tttctaccga 120
 tcgtttgaat tgtattatcc gttaacttcg gttaaaatga attccaaccg ttcggtcgtg 180
 ccataaccac gttggaaatc aaaaaagagg taaataataa tataataatc aaaataacat 240

cttttaggta aaataaagcg gaaaatcaat cggacatttt ctctttggga tttctcattc 300
 ttaaccgaat tgactaataa ctaaagtga actaaggcta aaatcaactc gcctagtcaa 360
 gctcgtccat aaaaataggt tttttgaagt ttgtcatttc aatttcttac taagtaaagtg 420
 gatcgttntt caagggccaa cgccttanaa tgatcacctt anataanaag aatcacttga 480
 taagaaagaa ctacgt 496

<210> 32154
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 32154

agctttctat tttcagtaga tgaagatgaa tctgtggcca cctcatggac tcctctaagg 60
 acaatagcat aatttcttgc actgaattgt gagttggaaa ccatcttctc aatcaaattc 120
 ctacgctcag caagggtcat atcaccaaga gctccaccat tggcaacatc aatcatactc 180
 ctctccatgt tgctaagtcc cttatagaaa tattgaagaa ggagttgctc aaaaatctag 240
 tggtgaggaa agcttgacac taatttcttg aatctttccc agtactcata caagttttct 300
 ccactaagtt gcctgatgcc tgaaatgtct tttctgatgg cagtggctct agatgtaggg 360
 aagaatttct ccaagaacac cctcttaagg tcatcccagc ta 402

<210> 32155
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32155

atcgattaca agatattggt aatcgattac cagtgtatct gaacgttgaa attcaaaatc 60
 aattgtgaag agtcatatcc tttcataaaa agctttgtgt aatcgattac atggtttttg 120
 taattgatta ccagtgacaa gttttgaata aaaatcaaaa gatataattc ttccaatggt 180
 tttcaggttt ttctaggtgg caaccacctc ctccgttttg tttaaaaatg ggcttccggg 240
 acacccgtaa tgctttcgta aaattcccat aatcctaaat aagcatattt catttaaaac 300
 gggtgagaag gaagagaaaa aagaataaaa tcaagttcta taggcttccg taacttttcc 360

gtanattacg aaagaaggag ggtgaactta tcanaatagg ggggtgcaa at agcaat 416

<210> 32156
<211> 405
<212> DNA
<213> Glycine max

<400> 32156

agctttgttt attggtcttc accgcgaaag gatcgaattg ggtctgaaaa gaggaaaatt 60
taa atcatcc tgcttgacg aatgagaaaa ctggggcaaa tgaaaagggt gagaatgaaa 120
gagaaaccca tgttgcaat gtcattccta catggccaaa cttcccacca gcccaacaat 180
gtcattactc aaccaatata agctcttctc attaccaccc acccagtcac ccacaaaggc 240
cattcctaaa tcaattacaa cgctgtcta ccgcacgccc aatgccc aaa caccaccttt 300
agcga aaacc aaaaagg aat ttgcagcac aaagcctgta ggattcaccc cacattccgg 360
tgtcatatgc taaccttgct ccatactac tcgataatgc aatgg 405

<210> 32157
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32157

caccaaccaa gaaatgaatt ttgcagcgaa aagcctgtag gattcacccc aaattccggc 60
gtcatatgct aacttgctcc catatctact tgataatgca atggtagcca taaccctgc 120
taggttcctt caaaccccca tttttctgag gatatgactc gaacgcaaca tgtgcatatc 180
gtggagggcc ctgcggcatt ccattgagca ctgtatgacc ctcaagcgta aggtgtaagg 240
tctaattgat gcgggctggc tgaaatgtga ggagaatcgc gtgtaaatcc tgacattgac 300
aagagatgcc acacatgggg caattntgaa agctgttgtt agatgtctct aatgactcat 360
caggattttc aggtgcgagc cattgggtttg tttgctcgag cgacatgcgc tctgagtg 420
tgacttccaa gaccgttcaa tcagagatta ctcgtc 456

<210> 32158
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 32158

agcttgatt taaatggacc aaaaccttat gatcagttct tganagtctg attagtctgt 60
 gttagtctgt tactagcagt caagttaatt agaaaataac tgacaggcaa ctgtgttagt 120
 ctgttacaag cagtcaaact caacaactaa gacatcttca cccattttgt gatcagtttt 180
 tgacatacct taatgttaag tctgattaca tattattaat aatattcatt tttgcattta 240
 aagaaaacaa atcaacaccc gtttttgacc aaaacctttc accaccatag caatgaaaaa 300
 agtatactaa aatttagtgc cactagcaaa gtaaaggagg gtacgttgaa naggtacaac 360
 aaaattacaa atttacaatg aagtaagtaa tttatcctct 400

<210> 32159
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 32159
 acaacagatc ttaattagga ccatttcgat gaaattgact cattacaact atgactttaa 60
 caatgatgat tataaaagggt gcatgcatgt tatgttgcat gtgaatctag tttaagacca 120
 tgcaataatg caaacaagta tacatttcaa ctaaaatgct accatgaaat gtttataagc 180
 caattaagaa aatgcaagct caccaattgc atcaacagtg gtttttccat tggaaaacct 240
 tccagaaggt ccaccaggga agtcaatccc ataaggcaag taatcagccc tagccaaaga 300
 ttggagctgg ttgttggtcc cattatcaac caaagaatca ccaaaaatga agtagcatgg 360
 aacttggtggc gcaccttgaa caccacccca caagccaaga gaaacaacaa caactatgag 420
 tgccaacatg cttattgtga gat 443

<210> 32160
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32160

agctttgttg ctgaaaaatt atataacagc accaagggtc tagtttagcc ctctcctctc 60
 ttctctctcc cctattttcg ttttctagtt ttaggctttt tctttgagac atttttctgt 120

tcttatactt ttgccttcca aaacaaacta atcactaatc ctctnttcat taatccaatt 360

ctgtatgtca ttgtataaaa gatcatg 387

<210> 32163
<211> 540
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32163

tccctcttat tactagctat tttgaattct ttagttccta aatgtacaac cttcaaattg 60

ttgcttggtc cctcttttgg tttgtgcaga gtagaaaatc aatatcaaag aaaacatgga 120

gagaattgtc atgggttatta ttactcgaac ctgaaggaat aacatctaaa caagtcattt 180

tatncttaga aggggaaaac tctgcatatt tatggaaaac atgggggtatg gaggcaagta 240

agcatgtgaa taccacaagt ctttttctcc aattcaaggg cttgattaat tgctctagga 300

aaaaagcata catctggtat attgtttggg ttgcagctgt ttggagcatt tggcagaaca 360

gaaatttcgg tttacgttgg gttgaccatg ttcactgggt aacctattgt cacttatact 420

cttatntatg cttgaagata acacctatca gtagatgctc atattagtcc ttgagatagt 480

aagtattaat aattgctnta gcttctgact ttgtacatgc tttttagttg atactaatat 540

<210> 32164
<211> 265
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32164

agcttcaatg ttaatgncac atcacataac ggcaaaaacc atatcacatt atggacatct 60

tgcgatggta ttgtaagcga catccttggc cagagtgggt ctgattggga tggcactaac 120

cacatgatca ccagcgagaa tgaaaatgct tggaatgaat attgcattgc aattcttctt 180

taatatattg ctatctgcta ttcaaagcac actgcatcag actgtctctt tttctttcta 240

ctcgcatccc tcacctaaac tgttt 265

<210> 32165
<211> 527
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32165

aataaagcaa gttattgaca cagcttctcc ccaaaaatac ttaggcaatt tctgccttt 60
 taacatgctt ctcaccatgt tcatgatagt tctgttcctt ctttcagcca cccattgtg 120
 ttgggggtgta taaggagtag gtacttcatg aagcatccct tcatcacaat tatttttgaa 180
 agtcatgtga agtatattca gctccacatc tgtccttata accttaatta cctttccact 240
 ttgtttttca cacatcaatt tagacttctt aaaaacaaac aacacttcac tctttctttn 300
 taatagataa atctacatca tccttgatg ttcacatg aaggatacga agtacctgtt 360
 acctccaaga gactggatct canagggtcc acacacatct tatttgatag tgagagtga 420
 agagacattn tagagagaan aactgatata atttcattct aaaaagttag ttacaaagag 480
 gtatatatag acctctaaac ctctgaacta agcanacaga aacaacc 527

<210> 32166

<211> 394

<212> DNA

<213> Glycine max

<400> 32166

agctttccaa actggtctgt ttaaagttac aacattgcaa gcagttgaaa tatttccttg 60
 agctcccttt ggggattggc ttcgtaactg attcatcgta ttgttacta agagaagcag 120
 gattatacat ttttaacagt ataaatatat tcattaatta catatttaaa tgtttttatt 180
 ttaaatttta tttttataaa attaaaattt agtatgtgca atgcatggac taaaatgata 240
 gtttctatgc aatctctatt aaattaaatc ataaaacaat ttggaccagt aattattatt 300
 acattaaatt aattagtaag tatttgccaa tttttaatta aaggatatatt cttttttttt 360
 tctacacggc ttattcaatt cgaattctaa aaat 394

<210> 32167

<211> 497

<212> DNA

<213> Glycine max

<400> 32167

ttaagaatga tttgttagat aattatgttt ataatttgt cttttaggac ttgtgtttga 60

gaaaacttcc ttgagaagct agagcttagc tacacacacc cctctcataa ctaagctcac 240
ctccttgaga agcttcctta agaagattcc taaagaagct agagcttagc tacacatacc 300
tctctaatag ctaagctcac ctccttgaga tgagaagcta gaacttagct acacaccccc 360
tataatagct aagctcacc ctatgacaaa gaacatgaaa atacanacaa agtccttact 420
acaaagacta ctcanaatgc cccgaatata aggctaagac cctatactac tagatggcca 480
catacaaggc ccaatccaat tcgcttttctt ttteganac gagcagtgc c 531

<210> 32170
<211> 404
<212> DNA
<213> Glycine max

<400> 32170
ttgctttatt tatgaattat tggtagaaag agggcattca cttgtcagaa atgagagtga 60
aaaaggaag gagaaagtct ggaataaggt agaattgagt ggatattgga ttacgtgaga 120
gaaaacgggt ccttgaagaa catgtttcat ttggatttac ctcgtgtttt tttccagat 180
cagagaatga ggcttgcata atttagtgtg catcagatac attttaccaa attatggagt 240
gtcttaaaaa tagtatatta gaatgtatcg ttagcatttc tcttactggt ttaaccagga 300
acagcaatac accttagct atttctctta ctgttttaac caggaacagc aatacacctt 360
tagcgataat attattcttc tgctctaagg acaaaaataa ttat 404

<210> 32171
<211> 555
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32171

catcttcctt tgatcaaggt gtcaaaatga gaaagatagc taagaacgtg gttgatatcg 60
aggcttccaa ggaaccttag aacttcatca tcaagccatc actccaagca caaccctatt 120
cggcgtcgag gaaagaatca tccacttaag gaaggatttc cccttattac cttggaaggg 180
aaacacttgg ggtaaaaggc gaggtagggc ctatgtgttg gggaataaat gtgtatgccc 240
aagatcta atccatcatgtt atcaatttta gtaaaatatt gttctttatt ttattatcat 300

atttattgat ttattaaatt gtcaatttga caagactttg attaaaatta gagacttgct 360
 atcatgataa agattatgat aatgaacaac aagtccttta taattntaat ctaaattggt 420
 tttactcata cgaatattgt gaatacgaca tcaataattc ggcataatca atatatatat 480
 atatatatat atatatatat atatatatat atatatatat ggcaggggct ttattggata 540
 caacatagta gatcc 555

<210> 32172
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32172

tagcttctag ccaaattggac ttaccttgaa ttaattcctt tgatagccct tttgagcctt 60
 ggtttccttt ccttgtnntg aagctcacta caagccttaa gtgaaaaacc atgatattac 120
 catatcctta aggaattttg gagctttgga attgttttgg gaataagtgt ggggggtttt 180
 tgtttcattg gacaacttgt tttgttggt atgcttcatt atgtattttg ggccatactt 240
 gatgtacatt gtatattggt taaatggttg acatgctgaa tgaaatgttg tttctcacag 300
 gcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttcgaacaaa aaaaaaacaa aaaaaaaagc 360
 aataaagttg agtgaataag atctttaat 389

<210> 32173
 <211> 486
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32173

gagacatttt tttttaatcc tcccccaaatt taggagcata tcataactaa gatctttatg 60
 ctctcttaaa ccttagaaaa aggtaggaga taattaaagt aggcttaagg gttttacaaa 120
 aaaacacgat taccattttt ggctcaaata aggagcaagg gataaactat tatcaaaggt 180
 tggctntttg gctaagtggc taaaataaaa agaaacatgg ccttgatcat atccacctta 240
 tgcaaataat ctaacagtct aagaatgata caaaattagg aatntaaaaa caaacgttct 300
 ctcataatta agttcacaca gctcaccggg acaagataaa gttattggct taccggacca 360

tgatctcttt ccataagct aaccttttct ctctttgtga ttcattgtcc actggttgac 420
 tgactcttgc ttccaagaaa ccagtatttt cacaattggg tatgcagcat tcaagtgttg 480
 aatcct 486

<210> 32174
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32174

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 aatgctaccc ttanaacaaa aatggcatac acaccccttc aataaatata aacatcaatg 120
 taaatttaga gcaagcttat gcgcatactt cttcacgaac gttcacttgc acaagacatt 180
 cttataacta agacaaatgc acccatatac aatcaaggca ctttcgttac ctagattatn 240
 tacatgtacn ttccaggtgt atctggtacc tacatcacac acatttnctt tgcctaattc 300
 acatacatgc atactctaag cacttttgct ataaaaaatg catacgtgca catctttgta 360
 tttctaataa ctata 375

<210> 32175
 <211> 497
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32175

acggcccaat aagcacggtg ctcaatctcc actggaagggt ggcatgcctt accaaaaacc 60
 atcctataag gagaaatcct caaagggtgtt tggtaagcgg tectgtgagc ccatagagca 120
 tcttcaagta gctttctcta atcctttatg ttgggttgca ctaccttttg caacacttgc 180
 ttgatctctc tttgtgctgc tggggcatct catgcctata tgcaatagtc ctttcgctc 240
 tctaaaattg ctcacaagtg gtagaaaaat gatgagcatc tctaaaaatg gtgggccaat 300
 agaaccaca atccaatacc ttcttagtgg tctactgagg accaaaatga ctgcgggtag 360
 gtgtgccatg acaaaactga naaatagatt gaatctcatg atttggcaca catctgcgga 420
 tcacttggtc actaccaaac cttgaaaaat aaggatcatc ccacacataa tctttagcat 480

<210> 32176
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 32176

agcttggtc ccttggtgcc tagcgagct aggatgctat ctctaaaagc taccgccttc 60
 tggatgaaca tcttgaagg cccaagtagc ccacgtgct attggcacc cctatgtact 120
 aaatacacgc ctaccttaat tgatgattgt ttttatgacc tgatgtattc acatggtacg 180
 tgcaagatgc gttaagagca taccacttat cgaaaagggg atggtagatc ttatcgggag 240
 ttattacagc catcctgtcg gcgatgatgg ac 272

<210> 32177
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 32177

aatcatccaa atatcgagaa ggacaagtcc tccataacaa taacagcatg tccctccctt 60
 gcacaatgct gctggctcta gcaagccata tggtcctgct ccaatgcac accgactgag 120
 acaacacgct gctgaagccc ctcttaacc ttacttagaa gagtcagtga ggcaaatgtt 180
 catccagaat atgagatctc aacagcagac aagagcctgc attcagagtc tgacaaatca 240
 gatggcgag atggctactc actcaaacca agctgagtc caaaattctg acaaactgcc 300
 ttcacaaact atgcagaatc tgaagaatgt gagt 334

<210> 32178
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32178

agcttggtgt ttatgcagac acgttaccat catgttgagg ngttggtttc attgcaacac 60
 cgttttgttt ctgagcccga ggttcaaggg cccaaggttg cgtttctctt cattgcacgg 120
 aacaggctcc ctttggaat ggtttngat gctttcttta ggttactttc ttttctcttt 180

tagttgttat tgatctctat atctttggga ttagtagtgt atgcaaata caatataaag 240
 agtttttacg ctgttatcca atcataatcc atatgataag tttgttgact tttacaatgg 300
 ttagtttacc aacaatgggt tctaattgat tgatattgta aatattttct acatttatag 360
 tgcgtaaaat taaactcaaa tatgcttgct tgtgtgtgtg tg 402

<210> 32179
 <211> 526
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32179

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 tcagattcga attttgaact cttttccacc aatatgatta ttttatcaag actatcgtat 120
 ctttaaaaaa tccttatttt tttttttgtt caaaacttac tagacatgca atgaaaagtt 180
 ggatcggggc gatgcagcca cggttgaata cacgatccaa cacagaacaa cttgccactt 240
 gctccccctc acgacgctta accatgggtca acaattcatg ttcaagtccc taaccatgggt 300
 cacacgcca acctaacca accctttcat ttcccttcaa aattaatata caccttctga 360
 atcctataaa taaccactt tcattcattg tagtttccct cttcttccct ctctttcggt 420
 cctccttttt ttacttttc gccccctta cgaagcgcgc cgtagtctc tgcgaccga 480
 aatcngaac ccgaattggt tcaatctccg agagagagag agagag 526

<210> 32180
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 32180

agctttgggt ttgttgactc gctccaatgg ctcatcatgt cttctattga acctttcttc 60
 atacgctcga agagaacca tcaattgggt taagggtcatt gagtctaaat ccttagactc 120
 ttcaatagca caaacacat aatcaaattt agcgattgaag gagcgaagga tcttttccac 180
 cacacgaaca tcttccatat tttctccata acgcttcatt tgggttcacaa tagccaacac 240
 cttgttgcca aaatctgaga tagattcaga ttccctcata tgcaatgatt caaactctct 300

<210> 32183
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32183

gatggatctt atatatctat atatctatag atagatatat agatatagat atatagatat 60
agatcataca atgaagtacc gcacgagtgg gtatatagga atccaaatct gccgaatcac 120
tcatgttatg atcttctaca tcttaggtct tcccgttcct tcatctggct tatgttcttc 180
atgtagcatt cagactgaat gactctatga aattacgtcg ctacttccac atggtacggg 240
taacgtagga gacatctcta tttttcccg gggaatcct tagaattacc acagcttagc 300
tntcaattcg cctctgacca tcaaataaaa tgtgaataac ccgtcctccc ctctntgaaa 360
ctntgaaaca aaggggtgctt ccggttctgt cgggtgctga aacaattnta gtcttctcat 420
attactatat ctcgagagtc acataattta tatgaggaac tactgaactc aatca 475

<210> 32184
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32184

agcttttctcg tacctcaatc agcaatactg caactgaaga cgtattatta ttattatcat 60
caataaaaca tgaacaccca cgaaaacata gcatacacga agttgaccta cgtacctcgc 120
ggagaaagct ntgagctntg agcaccacag agtggttcag caccctagta ccaagagtgt 180
atgtaaagtt tcttcgagcc acactttcaa gagcagtgtg gggggttctg taggttcgag 240
cgaggggttt ccggcagtat tgaaaacaat gtgggacaat gtgggtgtcg agggagcggt 300
ttctggcaga tttcaggcgg gaggagaaag agaacagcga ctgcaagggt ttcgagcgca 360
cgggttggtga aatgccaatg ttntaactta taaacataac aacatc 406

<210> 32185
<211> 522
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32185

acgtcatgga agcgttacga aagcgtctcg gcttgattt tttccttctt tcgtcttttc 60
ctcactaatt ntaagtgaat tatgagtgcc aaagatgctt aacctttttt cctcagcccc 120
ttacaccatt ttatagcaaa aatgagggag gtggttgccg cctagctcgc ccaggcgagc 180
taggtagctt cgcctgaag taacccttct ccaaaatatt ccagatgggc ccagggctag 240
gtacaccccc caaattgatt agttcacccc ttattttttg tttttggctg atttcctttc 300
gaaacatcgc gaaactttat ggattacgcg acgatgagtg ttaagcatct caacttggtc 360
agcaaaggtc cgcattgtga caaaaaattg tccctgatg aaattagggt atgacagttg 420
cccctctnnt acttatgttt attggagata aaagggaagt aaaggtaaga cactaatttc 480
gttcgagctt gaaactcacc cgaccgacca atagctcaat ca 522

<210> 32186
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32186

ttgcttgaag acttgtacat gaccaaactct ctggtaaatt gattcttgat cttgaaaaca 60
ttgttggtat tattgaggat gaagatcaag ccttactgtt attgtgtgat ctacttaaga 120
cctttgctca ttcaaagaa acacttctct atggaagaga ttctctcact cttggttgaag 180
tccaatcagc cttgaactct aagggattaa atgaaagaaa tgaacaaaga ctttctgtac 240
acgngagag actcagctcg tggaagacaa tataagaagg atgataaggc agaagggaaa 300
agatccaagt cacaagctcg atctggatct aatgtaccaa acattagatg ttaccactat 360
aaaagagaag gccatactcg gagattntgt cctgatagac ac 402

<210> 32187
<211> 525
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32187

gatgatcgtg caaaatggat agaattaaat gatttaataa aagttggtgc agtgggaagc 60

THE **NEW** **YORK** **PUBLIC** **LIBRARY** **ALEXANDER** **TILDEN** **FISCHBACH** **FOUNDATIONS**

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<223>      unsure at all n locations
<400>      32188
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<210>	32189
<211>	510
<212>	DNA
<213>	Glycine max

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agtagcatcc atagcaactc cttcacctga aactatatgt cctaagtact ctatctccaa 120
tacaccaaaa gagcatttag acaacttagt aaacaaaaca ttttctttca acactttcaa 180

[illegible]

ttgttagctt	atattattct	atgaaaagaa	tggtatcttc	cacaacttct	catcactgag	60
aacacctaca	canaatggng	tagttgaaag	gaaaaataga	actttgcaag	aaatggtagg	120
accatgcttt	gcacaatctc	actaactaaa	aacttttggg	cagcaacaat	aaacacaact	180
tgctatgttc	aaaatagaat	atggtaagac	attgattaaa	aagactcctt	atgaactgtg	240
gatggaagat	gacctaacat	ttcatacttt	catccatttg	gatgtaagtg	ttttatcctt	300
aatccaagaa	atgaactcgc	aaagtttggg	ttagaggtgg	ataaagggtat	cttcctagga	360
tattctgaca	tatctaaagc	tttcagagtg	gttaactc			398

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<223>      unsure at all n locations
<400>      32195
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gggcagcaat	actactaact	tgactgtagt	gtgcttgat	gtagatgact	tgcttgtagc	60
acgaaataat	gagactgaga	ttgccaactn	taaaggagag	atgataagag	agttcgaaat	120
gactgatttg	gaccttattt	cttattttct	tggaattgaa	ttcaagagaa	ctaattggggg	180
agtgatcatg	aatcaaggga	ggtatgaaa	agatgtactg	aagaagttca	gaatgggttg	240
ctgcaattnt	gcagacacac	ccactgccac	tggtgtgaac	ttggtgaaa	atcctaattg	300
agaagaagta	gatgtaacat	tgtatagaca	aatgggtggc	tcactgaggt	atctntgttg	360
tactagacct	aacttatttg	atggtgntgg	cttaattagt	agatatatgg	agaatcttga	420
ac						422

<400>	32196
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agcttccttc tgcgtcggcg aagagtagta ggagcgattc tgagaggagg atcgacacac 60

ccacgcgaga

70

<210> 32197
<211> 148
<212> DNA
<213> Glycine max

<400> 32197

acggcctatt cgttggcgaa taaatgtgta tgcccaagat ctaattcatc atgctttcaa 60
ttttactaac atatttgtct ttattttatt atcatattta ttgacttatt taatccgtca 120
tatcgacacg actttgatta atattaca 148

<210> 32198
<211> 197
<212> DNA
<213> Glycine max

<400> 32198

tgctttggtg cggcgaaaag attgtgaagg tgaaaagaca actataatga ccagacatac 60
ggaaatgaag agactcgtag tgcaagtgtt ttgatgcgtt ccaaactgaa aagtcaaata 120
agtagtggtg ttggccattc gagtttcaat attgttggtc gttgggttcta accatgccta 180
atacagatat tcaacta 197

<210> 32199
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32199

taaacttgct ttctatttat ttgcacatgt tttgaaaatg gttctttatt tgatttaact 60
aatccttgaa tttgcctatt gaagatagca gtactttcta caggtaatct ttctacttat 120
gaatggcaaa ttaattaacc ctctcttaac atcaattacc cattgtatat acataatttt 180
tattactcat tattagctct tacttaattt aatattatat aagtatattt attcattatt 240
agtaatatag ataattttta ttactcattg ctaggctcta attaattaat taatatttta 300
ttatatttat tgattattaa aaatataaat aattnttacc actcattctc agttttttata 360

tataaacaat tattacatca agcatattga ttaattacta tgc

403

<210> 32200
<211> 63
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32200

tgcttgngct tcaagtttcc atacataggc ggagaggtga agtgatcaag gtatcagaca 60

ctg 63

<210> 32201
<211> 231
<212> DNA
<213> Glycine max

<400> 32201

tcaccaataa caatgcacag attcaccagt aatggaacgc ttcagaagat aaaaaggtat 60

atgtcgatgc cctaagtact ggatgaaatg gactatgtat ctcacgatct cagggatgcc 120

tgtcagatgg atagcctcta accataccct acattgagca tgcacacaac tagatgcgtt 180

atcatgtaca tacacgcgca cgtatgaata catgtaccct cacatgatat c 231

<210> 32202
<211> 153
<212> DNA
<213> Glycine max

<400> 32202

aactgacttc gcactgcctc tctcaagttt caagctcctt accctgtttt gctcaataag 60

ccacctgatt acaccttttt gaggaactct ggatgctctc gctatccttt tcttagacct 120

tataacaaac acaaccttga gtttagcccc cat 153

<210> 32203
<211> 233
<212> DNA
<213> Glycine max

<400> 32203

cagattagca tgaacctaat ttccatattg cctagaaatt tgaacaacta ttggccatca 60

acaccacaga ccataacgat aaaagccttt gacaattaaa aaaaatacaa aaataaaaata 120
 caaagcagca gcaacttagc atgtagtata acataagctt gacaaataaa aatacactat 180
 ggaatacaac tattttccaaa tactgaacaa ttatcaagat taacctgaat cta 233

<210> 32204
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32204

aggaatcana ctcatgacta ggaacccacg tttgctttat gagctagaaa aacatgcact 60
 ctgcgatcgc tatgcagacg acttgatcag agtaaaccatg aacatacatt tctcatatcc 120
 tttgaaggtc caaccatctc tttttttcac ttcatactta aactgactac tcgcgctac 180
 acatctatcc ttgccctgcc tccatacgcc tacataggat catgtattct gtaatttatg 240
 actaatcatg attctctgtg atcttgctct ctaagtaatc ctaacttact ggatacaaaa 300
 ctattaagca gacatattta ttatccctat aattcttatt gtttgccgtc aacactcaca 360
 ttaatgttag agaaccctcc taggagcctt atcctgcgaa actattcgac aacgacgcac 420
 ccttccaaat tgtagcttgc accttctaata tactacggta cacgccccg 469

<210> 32205
 <211> 65
 <212> DNA
 <213> Glycine max

<400> 32205

agctgcaccg ggatccttag agcgacctga ggatgtagtt tatatgaaag aatgattcac 60
 gcaaa 65

<210> 32206
 <211> 116
 <212> DNA
 <213> Glycine max

<400> 32206

aagacatatt ggattggaga tcatgtttgg aacaatctgc tatcacattg gaatgcacct 60

aagtatcggt tcaagtgtgc atgagcaaaa aaacacaaca tcaagcatct gaacag 116

<210> 32207

<211> 375

<212> DNA

<213> Glycine max

<400> 32207

atcatcggca tgagattgga gagaatcaga ggtaaagaat tggaaacaga taaatgttgg 60

gagcttcaac ttctaaactg tgaatttctg ttacaacctt acacagattc agttgtttac 120

cttacagttg gacaggtggg attaacgaca atgttaacac gtgcaattat ggtgtttcag 180

ttcttcatgt aaaaataata aactgcagt ggacatcaat gtcgtttctca attaaaatgc 240

cctttttcat aggaacatgt tgggtccatct tctacctatt agaaatcatc ttgtatataa 300

cttttaaagt catcattata aaatatgaat aatattctct taacaaaata atattctcct 360

acaagataat atata 375

<210> 32208

<211> 143

<212> DNA

<213> Glycine max

<400> 32208

agcttatact ttattataat ctatagtgtc gaactgtgtt ttaatcacta cgaggcccaa 60

ttccatattt atcgttttat ttaatcaaaa aactaaaatt ctcattttac aaacacacat 120

tacaaattta atcgataaac ata 143

<210> 32209

<211> 431

<212> DNA

<213> Glycine max

<400> 32209

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tgctctctgt atgttgggaa ctgtcgcaac ctacctttt gcgggagagt gacgcgaggc 120

tcacgggtgt gtcttccatg ggaggaaaat gtgcggagtc gccaccaacg tttattgaaa 180

ggaaaacatt ggaaaaacca aaggaaactg gtcataaaga atattccaga ttcaggagtt 240

atgcttacgc ttgaggaagg tattagcacc tctcacgttt gtcccaaagg acaacagcct 300
tagatttaga gctgcgtgaa atcatgtatc ctacattctc cgtctctata tattcttgag 360
gtccacaaaa gcgggatttt tgctcctacg tatectccat cagagaggaa atcacaccta 420
cgtagttctt t 431

<210> 32210
<211> 276
<212> DNA
<213> Glycine max

<400> 32210

agcttcttgt tgcggttaag atatgcccc tagtcaatag tgcattgggtt actcccttgc 60
gagtggatc acagaaatgg ggtacacaga ttatcactaa tgaccagaat gaggatgattc 120
ccacaataac tatgaccgga tgaagaatgc gcattgatta tcgtaagcta attaaagcta 180
cacaacata tcattcttct cttactttca tggataaaat gttggaacgc cttatgggat 240
aagcctatta tactttcctt gatgggttatt cccgat 276

<210> 32211
<211> 485
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32211

ccgcggtttg agcgttgata acgtgcctac gagaactgac gctaattngcg caggataatt 60
gatagttatg ctcttcatta tgagtgcgct ctatgactaa ccaaacacag tatatgaact 120
agtcattggct tactatngta ctctctatcg gataccggac gataatacta taattatcat 180
gaagactttc ttctgacatg gactatagcg tttttatgat ctagtcatta tgcacagtcg 240
tgctatcat tgtgactaag actagagtag agattgcgca ctatacatcg cacaattctt 300
gcacatacga ttgctaaaca ttcaataatt atcacatgaa tgaaaattgc acaattgaaa 360
tactatatga tccgacttta cataatgata atagtatgca agatgcaaga ttgaagaacg 420
tgtatgacaa ctcgtgtgca agaattgctat tactctataa tcatacaggc gaaattatac 480
gatgg 485

<210> 32212
 <211> 268
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32212

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 ttattgctga aaatcaatac aacttggtca acactcntcc cactcaatct catacatgaa 120
 ccacagacaa ctttttccga tcttattttg ctactatatt ctctgatttg aaatatgttt 180
 atcatgttgt ccactattct ggcgttataa attcatctgt ctctactaaa caccatatca 240
 tgtctcacc ctttcgcatc attaaatg 268

<210> 32213
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 32213

catctctggt ttatgtggct tacatcaaga cttttatcgg gtgcttgtgt aagcacagga 60
 ttactatttc acaccctctc taatgcgaat taccaatgag catcaattct aacataccgt 120
 gtgccaatth ttaagaaccc ccattgcact tgctcttaca ctactctta tactctgttt 180
 ataataaagt ttactgata aaaaatacca acgtgactta gctcatttag actatacacc 240
 cgaggataca ctgagctcta agcccaattg taaaaactac caactggact aaatgcgatg 300
 ctacgaa 307

<210> 32214
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32214

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 catgcaggca tgcacatttg tactttttaa cnatctcttt cataggttga ggttgctctt 120
 agattgcctg tgctgtaca ttattacatg ctaacgctgg atcacgaact tgccatcgac 180
 aactgatta caaatcaa ctcggtcctt aaaatctagt taacaaccaa ccattacatc 240

ttgcatacag tgcttaaacg ccatcacttc gactacttat gcttttcacc agatcgtagc 300
 attctcgcta tcatgactaa aaaattatgg aaaatgaacc aattacgtaa acatatgcat 360
 ggccatggct acagcgcgca ctccacccat cctaagaccc ctctgtactt acatccgttg 420
 actgcccgtg caactggtcc aaaaacgaaa aac 453

<210> 32215
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 32215

gttcgggaga caaatgttaa gcgttctoga tatgcgaaga tgatattccg agtactttgg 60
 atttggtacg accatgctct cctgatttcc agctgggaaa ttggcgagtg gaggaacgcc 120
 ccggcattta cgcaacaagc ataatgtaaa cctttacggg ttttaaaagc tctatagttg 180
 ggcctaggct ttagagtttt cattttgtta aggctttgtg tcttttggtt ttgaatttat 240
 aatacaagga tctttcttca tctgttctcg gtctctaccc attctcattc atttgcattg 300
 ttactttctt ttctgaaacg gcagatccga tgacgagtcg cccgaggtac taatacctgg 360
 gaccctgcta tgcactttga gcacgaaatg 390

<210> 32216
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 32216

tagagaggaa gctctcaatg gaggaagata atgagagtta gagagagaga gaggcgtgga 60
 aattaaagga ggatagggag agaagttgaa ctttgaagtg tgtctcatag tttctcattc 120
 atcaaagtta tgacaagtcg tacacatgtt tctacttata gcctatgtca ctaactaaat 180
 gaaattcact ttgtgtttta tttttatttc atgtaaatct aaaaggaata ttccaagaat 240
 atgccaaagg catcttaaca tattcccttt agatgacaca agcatggaag gtgtgactct 300
 agcacatggg aagcttcctt gagaagcaag gaagatagct tccttgggaa gcaaggaaga 360
 cagcttcctt aagaagctag agttagctac acataccctt ccaatagcta agctaacccc 420
 catt 424

<210> 32217
 <211> 209
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32217

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 ttctcaacag tcacatcttt ctgtgtggtt cttgaatggc tatcataggc ctatatatac 120
 gtgacttgag acacgaatnt gacaagagtt ttgaacgaaa aaagtctcat cctcctaaaa 180
 agcaaaattg ctttatcctc ttacaaatt 209

<210> 32218
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32218

atactccagc ttgatctctt tntcatttgt agtttactta tgaacatgt tgaagtttgt 60
 ctctgttaaa tctatagact gcttgagca ccaatagaga ttactagtga taaatcttta 120
 gggaaatttg taacatagat tcaattatat gtaggactag ggtcagatat agtcataaac 180
 aaattgtctt ttggttcttt ggtagtagat cactgctttt ggaatgtttt ttttttgtc 240
 agcaaaaata atatatattg atatatgagg gagtaccaga ggtaccataa atacaagagt 300
 atgtaagtaa ggctggtaaa tcctcatatc aggctgaata caaactgata ggagcttact 360
 agcctactaa caagtggcan aaattacaaa aaccacagct ggtgttacc t 411

<210> 32219
 <211> 208
 <212> DNA
 <213> Glycine max

<400> 32219

tcaagcttct tatecaaggc tcactttgcg ggcgaagctc cttcttccat ggcttactcc 60
 ctagtggatg gcgcctctc tcacctcttc tcctttgtct tctgctgcat ctccatgatg 120
 gcaaatcact attaaaggac ctcatgaag ctcaaagatc cagcctccat acaagcccca 180

<210> 32220
 <211> 463
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32220

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 gagcttttat accttttata gcgcggtttt ggggagctct tgcgcgatct tcgaggggttc 120
 ttttaactgac gtcctctgca gcactattct ctagaaactt ctcaggaagc tacctcctct 180
 ataactagaa gcatgtgtaa cacattgtgt acctcttggt aatgacagcg ttggacacac 240
 aactcaaagt ctaacttcat ctcccttttt tttccttctt gctccccac tctattttct 300
 ctacctctct cttttgctcc attgaagcat nctctccatc cttttattca cgactctctt 360
 ggtggtgaat ctccctctct catggcctat ttcttactgg attgctccat ctctcaccta 420
 ttttcctttg tttccgctga tatcaacgtg gaaatcatct tgc 463

<210> 32221
 <211> 431
 <212> DNA
 <213> Glycine max
 <400> 32221

tatctaakat taaggtttat ttaatttggt tgacaattta tgtaataact ctatagacta 60
 tagagtgttt gattaccgaa ccttaactac tactgaaaat tatattacaa caacctaaat 120
 ttgtaaakat tatcttggtt attttttatg aggacacatg tattttatac ggaagaaaat 180
 attgtgagtt acataaaaaa ttattattat aagagataaa agtttctctt tgaatattta 240
 gcatataaat gtacactcaa agctcaaatt tggaatcaca tatgaattta gactagtcac 300
 gagtaaatta atttatacat tccatgttaa aacaaattat catcataata tgaattattt 360
 aatttcatat tataaatata ttaaatacta ttgcacgact tacccttgaa ctaattttta 420
 cagattaacc g 431

<210> 32222

<211> 318
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32222

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 tgcggatgaa agaagtatgg ttcaagaaat gacacaagaa acaatttttg cagtcctcct 120
 aagcaacctt agtcaattct ttagttagag ccgtgaattc aggaaaatat ctagcaaacc 180
 agagttgaag gaaccaaaaa gggttgcccc ccgaccaatg ttttggcatg tattcattnt 240
 ggtaatcatg ccaaaaagag aatcgtaaaa aggtgcaaga caatagggac ctatggcaac 300
 tctcttgcca aacatggt 318

<210> 32223
 <211> 415
 <212> DNA
 <213> Glycine max

 <400> 32223

 tatgctgcag acatttatta tagttctact caacagctat ggcgcgaact tcagagtaat 60
 tatgaccttt caagcaatag atacaatcca tggtggagga atcatccaaa tctgagatgg 120
 acaagtcttg cacaacaaca tcagcatgtc cctcctttcc agaatgttgg aggtccaatc 180
 aagccatatg ttctctctcc aatacagcaa cagtgacaac aaagacaaca tgcaactgaa 240
 gctcctactt aacctttctt agaagagtta gtgaggaaaa tgaccattca aaatatgcaa 300
 tttcagcaat agacaacagc ctccattcat agcttgacaa atcagatgga gcagatggct 360
 acttagatga accaagctca gtcccaaaaat tctgacaaat tgccttcata aactg 415

<210> 32224
 <211> 142
 <212> DNA
 <213> Glycine max

 <400> 32224

 acaagcactg ccgcagtggc acaagacagt taatgagttt atgagcgact cacgattcac 60
 aagatgtgac atggaccatt gctgctatgt taaaaaatat actaatagtt atgttatccc 120
 ttgtgcgtat gctgatgaca tg 142

<210> 32225
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32225

tgggtgattt tctttttctc tggtatacaa atttatgttg tgtattgaga aacaaagttt 60
 tagtctccat tggaggtaga tgtgggtttt tagttgttga ttttcaaact taaatttgaa 120
 aacaaaaaat gtttgaataa aatgaggttg aaatggtttt taaataaatt ttaaaaccaa 180
 cttagctcac ttttgaaaac aagaaataaa agagttttgt agtttaagtt tttggaagtt 240
 gtgtgggttt gatactttcc ttcacttttc tccaccttcc atcatatctt tgtttcttgt 300
 ttagtggttg ttagaggtga caaaatagat gaggttaact aactcgactt gaaccattt 360
 gataaaatgt aggggtttaa ctatagacta tgatcatgaa tntaatttaa gtttttta 418

<210> 32226
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 32226

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 atttttgcga ttttctttca tctcctacaa gtaagtacca tctcccttca aattttggct 120
 ttccattgtg gtattctggt gctttagctc tcatattctt tctaaatttc atgacacaat 180
 ttgcgtatga atccatgctt tgattatttg attgcgggct gcaacggatg accctacgcc 240
 tacctttgat tctactatgg at 262

<210> 32227
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 32227

actatacctg gtatctgaca tatgtgtttc ttgatctata caggcgaccg tgactacacc 60
 ctgcgtacta ctagactcca tcttagacga gatgttgatc tatatgatcc ctcttcttgt 120

aatgggtatg atgaaagagt ggaaagaaac attcttatac cctctctact acctctatac 180
 ctctcttgtg acgaggaccc ttgctaacca ccttctgcta cgcctcacag actagatcat 240
 gaactatcgt taccatatgc tactccataa ctagtattat atttggtgtg catatatgac 300
 atctgtctct ggaccgtact taaacctggg atc 333

<210> 32228
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32228

agttttcatc ggcaaaagga tcgaagtgtt tctgattata ggcaaatttg atcatcgcta 60
 ctttgataaa taaaaagcct gnggcaaatt gagagagtaa gaatgatgga ggaacccatg 120
 ctgtgactgt cgttcttaca tggccaaatt tcccaccagc tcaacaatgt caatactcag 180
 ccaatatcag cctcctcat taccaccac cctatcaacc aagaacaccc aatcatccac 240
 aaaggccatc cctaaatcag ccacaaagcc tgccttcgc acatccaata ccaaacacca 300
 cccttaacat gcacaaaat accaaccagg gaaggaattt tccagcaaag aagcctgtag 360
 aattcacctc aattctggtg tcgtatgcta acttactccc atagttactc gataatgcaa 420
 t 421

<210> 32229
 <211> 131
 <212> DNA
 <213> Glycine max

<400> 32229

cgctttttat tatggcactc tcttggtggc gaaaggactt cttccatggc ttattcccta 60
 ctggatgacc tctcttctca cctcttctcc tttgtcttcc gctacatctc catgatggaa 120
 aatcaccatc g 131

<210> 32230
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 32230

atctaattat tagtttctat gttattaaca agccgttcat gagttaacta gagatttctc 60
 tttgaattat ccgtattctt tctagactat aacttaaaaa cttcagaatt taaccacacc 120
 taggtatatt atgataacat ctgatttttg gatttcagta gtctaaaaac actattcagt 180
 cgcatatcag aacactaaca ttgtctacca catatgataa atggggatgt tacaactgag 240
 agcataaacc ttgataacta tcatgaagta caatcagcat tagatagtta tttgtctatt 300
 gttaagtatt agtgacgtat ttttagtctg aactttatat taaatccatt ttaactaaac 360
 aattattcat gttttttata aaaagtgtca ttatatgtat tttacctaac aactg 415

<210> 32231
 <211> 215
 <212> DNA
 <213> Glycine max

<400> 32231

agcttctagt ctaatggact taccttgaat gaatcgcttt gatagcccct ttgagcctat 60
 gttccccctt ctttgttttg aagctcatta caagccttaa ctgaacaacc atgatcacac 120
 cctaccctta atgagatttg gagctttgga attgttttgg gaatacgtgt ggcgggggat 180
 atctcaattg aagatatgat ttttgacat gctca 215

<210> 32232
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32232

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 gaaatgttat gaccattcga atttgctgag agcttctggt gttgaatttc gagcgtctag 120
 atgagttatg tcaccgaatc ggacatctgt gtgaagagtt atgaccattc gaatttctcg 180
 acatcttccg ttgttcaatt tcaagcgtct cgatatatta tgtccccgaa tctgtcttct 240
 ttgtgaaaag tttggaccat tcgaatttct ggacagcttc cgttgttcaa tttcnagggt 300
 ctcgatatat tatgtccccg aatcggacat ttgtgtgaaa agttatgacc attgaaattt 360
 cttgagagct tccgttggtc aatttcaagc gtctcgatat attatgtccc ctaatcagac 420

atccgagtga aatgttatga

440

<210> 32233
<211> 205
<212> DNA
<213> Glycine max

<400> 32233

agcttgctct atatttacat tgatgtttgt atttatggga ggagggtata tgccattttt 60
gctttaaaga gtaatgtccc actaaaacta actctccaaa tgtttgctt cgcaggaatg 120
gccccgacga agcttgcttc acagacgtcc aggaaggaca acgcgccga acgaactagt 180
tccgccccgg agtacgatag tcacc 205

<210> 32234
<211> 316
<212> DNA
<213> Glycine max

<400> 32234

cttccatcca gtgttccctt gatggggacg aggggaggct ttaattgctt taattacaat 60
cctatcctca ccataagaca atttgggtac cctatgagag gagcaccatt agaggaaggc 120
ctcacacctt ttattgcgcy aggtttcaat agcaccaacg tgagggtgct tcatagggtc 180
cgcaaggcat gacacagggg gcaaaagatg gacgaggaac ttatgggaag taacaatggg 240
cccatcgacg gttaccgtag gtggttgaaa gcctacacac aaagtctgga ttggctttca 300
aatttgagaa ctacta 316

<210> 32235
<211> 318
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32235

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tttaatctta gattgatgtt tattgcttaa ggctttgcat ggttgaaatc aattatttgt 120
aggcttgcta ngccacctgc tgggtggttca ctttaaagta aaattgtgtt tgcattaatg 180
aagttattgc atgccaaaga ggttaaaaat aaatttatta atgatctttg acctgtaatt 240

attcacatgt ttggcttgcc ttggttttac cacatacctt ctaagcgaaa tagctctcga 300
gtatactatt atatacat 318

<210> 32236
<211> 415
<212> DNA
<213> Glycine max

<400> 32236

aatactcacg cttgtgcttg ttttattaaa attcctagga ttatgagctt ctaggtgtgt 60
cctacaatga cttgcgaaac aaaaggtgat caaataacaa gcagagattt aaaaggtact 120
aggttgcctc ctagtagcgc ttctttaacg tcttgagttg gacgcctgat gacttgctcg 180
tcacggacct agtactttgc ttacctttgg ctttggactt ggtcgcctat tggttggcca 240
tgtgtcgtag gcaatactct aacctttttg tggatgagct gatgggctct ggaggtggcg 300
acggtgcatt tgttgctgt tgctggcgat cccaggtg gtgtggtgtt ttgccttgcg 360
cctgcctggg gcgcaatact tcttgatgaa agctcgatta gtatggaacc tgatg 415

<210> 32237
<211> 245
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32237

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tccattaatt ntntgcttta ccttctcttc cattggtgnt tcttcattct ttctccatgt 120
atctctcac atctcttggt ctacatgttc ttaacatgat tctctagagt ttccaccgat 180
taaacttgct atagaagcta gatttgattc tctatgggtc acatttcttg tcttgttct 240
tgaac 245

<210> 32238
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32238

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 ctaagcgcaa cactcatggg ctaagcgcgga ggaagactct ggaagaagat gagctataca 120
 ggttcgctaa ggcgcgcgt ttatctcact aagcgcatg ttttagttca tccactaagc 180
 gagaaaggca tgtgctaagc cgaaattcac taatgtacgc taagcagtcc ataagtgtgc 240
 taagcgcacg agcacgaaca aggttgatcg aggctgtacc cgaatcaaataaacattaaa 300
 atgttgtcac taggaagtga tctacgctg tttcccaaca agcaatgata aaccaaattgt 360
 tcataacgga tagtacgaaa tagtaacaaa ttgggggggg gggggggg 407

<210> 32239
 <211> 113
 <212> DNA
 <213> Glycine max

<400> 32239
 tcaagcttat gagaacgtgg ttccacgact ggagactgtg gatcatcgtg atactggttc 60
 aacttgagca cgtgtgggct caccgaggagc agcctcattg ggtctcacca ttg 113

<210> 32240
 <211> 264
 <212> DNA
 <213> Glycine max

<400> 32240
 gaataacgtc ctatcgattt ttttgatcat attttttttt caagatatct tgattattcc 60
 atcattattt tgttttattt ttgcttaacc gatgttatag cgtgaatgat cagtcgaaat 120
 tcattttatc atttattaag tgacaaaact acttacatat accgtaaaaa gcttggttaa 180
 gcggaagaaa agaaaactga aaataagcga aattaaagtg acaatacaca caacacgtag 240
 ggaccactaa cgtgtgatc gacg 264

<210> 32241
 <211> 252
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32241

taagcttaaa gatccagtct ncatagaagc ctgacaagca agcttccatc aagtggtaat 60
cagagcacia gagcttcaag taggtgctcc ttacacctcc attaatatct tgctttacct 120
tctcttccat tgttgtttct tcattttttc tccatgtatc tcctcacatg tcttgtgcta 180
aatgctgcta acatgattct ctagagtttt caccgataaa actcgctata gaagctacat 240
ntgattttct at 252

<210> 32242
<211> 439
<212> DNA
<213> Glycine max

<400> 32242

gaaactcacg cttatatctt tgaaattctt gttctatatg ttcaacctat ttcagcttgt 60
ttgacaaatt atatcaactt tttatatcct aaaatgctga ataaataaat gaagctttgg 120
atggcttaaa tttccatata cacttgctag ctatttcctt cttttgaata atgattcacg 180
ttaggttcta caaagtgaac tttttaatta ggcataataa gaacttggcc ttgcataatt 240
tgattgcaca gaagagtatc attttactag aattcaagct aatgttcatt cttaataatt 300
ttttgtgaac attatcttta aggtctttat tggataacac aatgagtatt gatgttgact 360
acatattgaa caactgaatt gacacacata ctagcatata ttttaacagca tcaaaacata 420
ttgagtagag gccaacata 439

<210> 32243
<211> 236
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32243

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tccattgatt tttagtnta ccttctactc cattgatgtt tcttcattct tatccatgta 120
tcttctcgca tgtcttgggc taaatgctgt taacatgatc ctttacaatt ctcaccgatt 180
gatcctgcta tacaagctag acttcattct ctatggttca catctcttgt tcatgt 236

<210> 32244
<211> 441

<212> DNA
<213> Glycine max

<400> 32244

aatactcccg ctttgaaata tccaccacga tatcagggat tataatcctt agacaatata 60
aattgcatat tacagcgtga acatcattgt tttttgtaga agacgtgcac gcgcagatac 120
cttctattaa aaaagagatt ggtcaagcca gaaagtgttc tagataactg catcgaaaca 180
tgcttggttc ctgtcgcaaa aatacaaaaa acgaaaagcg tgagctggag aatgaaaaaa 240
aaaaattgga agaagaacaa tgttggggaa aaggaagaac cagggttgta acggaataat 300
tgaggaagag gttggtgcct tgaagttgaa caggcgtaga gacgatctcc gatgaaagag 360
gacttctacc tcatttgagc ttgcggtgag gcgcgcgtcg ccattatcga tctttctttc 420
tttttgctcc tgctactctt a 441

<210> 32245
<211> 240
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32245

tctgcttaag gtacttgtgg ctggtgagcg gcattggtgg ctcggtgctt gctctggctg 60
caaagaggaa agggtttgag gcggtagctt tgagaacgat atgagtgcta taagagggga 120
ggggcactat acgggtccca ttcacataca aagcactgct tcggctgatt tggaagctat 180
agatttggac gctgctgcaa acctatgaca gctggctgta tcacggatga tangatcaat 240

<210> 32246
<211> 341
<212> DNA
<213> Glycine max

<400> 32246

agagtttggg ctgttatcca catgctctct ctctagcaag tgctgaagaa aatgtattac 60
ggaagaagga tcccagccga ggcgctgacg taacgactgc ctgctgctat gcgacttatt 120
acacgaagat tattctgcgt tacttcccaa tgatcctacg gtcttacata tgttgaatcc 180
tccacggcta actaccatat acctgcttt tcaattaatt ctatgtaccc cgtgtgcgcc 240

acactccgtc catcgcatgt tatgctcgaa gcgtttgacg cgcataccag ctaatgatgg 300
gcgaatgacg tctattttaag caatttatcg cttaatctac t 341

<210> 32247
<211> 304
<212> DNA
<213> Glycine max

<400> 32247

agcttatatt gatttggctg aacgagggat tgagggttag taatttaggc tacaacatag 60
aacacaagag catgattgat tagagaaata catttatatg catgagcttg tttgtgagac 120
agaaccaaca tttctaccta ctgctgtcac tctacttac tttgcattct atagctctta 180
gcataaaagt ttagtttaaa ttctatttga aattatcaat catacatgtt ctctcaacia 240
tgcttcattt ctgaacttaa ttcacgctag cattaattcc ttgcgttcat actcggattc 300
atcc 304

<210> 32248
<211> 378
<212> DNA
<213> Glycine max

<400> 32248

ctaagctcta gcttctcaag gaagtgttct caaagattct tctcaaggaa gttttctcaa 60
gaaagcttct caaggaagct acctagtcta taaatagaag catgtgtaac acttggtgta 120
actttgatga atgagagtct tgtgagacac aactcaaagt tcaacttctc tccctttttc 180
ttccttcgtg ctccccctc tctctttctc tccctctttc ttttctcca ttgaagcatc 240
ctctccaagc ttcttatcca agactcatct tgggtggtgaa gctccttctt ccatggctta 300
ttccttagtg gatggctcct cctctcacct attctccttt gtcttgcgct gcatctccaa 360
ggtggaaaat caccattg 378

<210> 32249
<211> 293
<212> DNA
<213> Glycine max

<400> 32249

agcttaaata ctagtgtgtg tgtgtacaat gccccttcat tttatatattt ggacataagc 60
 tatgtcctgg ggtgtccgat tagagtgtt gctttatacg cagaaatttt agacactatg 120
 ttcaattcta ggcttagact agcctcatca tctacatact ggaaacatgc caatcccgtt 180
 acttttgggt tgaaatctta aaaatatcta agggatatag aaatacccaa gtgttatttt 240
 tagttgttct ttagtttgaa atctgattac acgtttctgt acacgctctt cac 293

<210> 32250
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 32250
 tcatttaact ggtcatacat gtgcaccagc gcggcagttc cccaggcata gccccactc 60
 tgaccaggtt cttggaaagc ctctagatgc accacatgaa catgtgttgc actcttggtta 120
 gaaaaaagag tgcaaccaac caagtggagg aggtaagcac gggctgtctac aatccaccat 180
 cgggcacgac atctactctg atagacatcc cgaagccacg aaagtcgtac atatgccgca 240
 tccgcccgtta cagtctcaga tctagcctcc tcatcgaaga cctcaaacia ctccatcaac 300
 aagaagaccg catcgccac aagtagaggc tcaaagctgt ggaacgcgct tatgatcgaa 360
 agatggagga gtgatgccac atcgccagc gtgatcgta actctctac t 411

<210> 32251
 <211> 246
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32251

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 tttcatgcct atcaaatgtg ttaaatttta aaattaataa atcattattg atataacttt 120
 catgataatt attataaaaa tcacgaaact tattataaat acataattac tataattaaa 180
 tacaaatata aaataactta cactatcaat atataatcta tttaatcaaa tcanaatcaa 240
 tatata 246

<210> 32252
 <211> 482

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32252

accgctgcct gacacattga ttacatcgac atttcgagan ctacgcaaca caacacctcc 60
 cggacgtctt atcaatcgca acaacttcgc cgctttctcac cttctccttg gcgagcgctt 120
 cgaggatctt agcgccgatg tacgaaaccg ataccatctc cgatcgatg agcgtcggct 180
 tcccggacat cctagagggtg ccggacaccg catggcgggtc tatcaggacc tgcaccactc 240
 tatgttcaat gacttccgct tcttccttga tgcggacgcc gaaggccgtg cggaacgcat 300
 gtgagagggc tttggttctg gacttatcct atgataacat ttctctggca acgattactg 360
 gaaaaggggt aattaggcac gaggacttgg acatgacat agagaatgta gacttgctcg 420
 agtcgtgctc tgcattggagg atgacagcgc tgaccaaata ttgccatctt aatcactcga 480
 gn 482

<210> 32253
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32253

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 gcatttctct ctctttcgaa tttgcttggg aaaattgttt ccgtgaagaa aatccaagcc 120
 gaggcgttc cgaaacattt ccgtaacgtt tccgtgagga atttcgagaa ggtttcgacc 180
 gttcttcgac gttcttcatt cgttcttcatt cgttcttcga tcttcaactg gtaagtacct 240
 cgaaccaagc ttttcgattc attctatgta cccgtggtgg tccacattgt gtttcgtgta 300
 tttttattct cgtttcattt actttntata ccccttttg acgtgcttaa gccattttat 360
 ttaagtcatt tctcgcttaa cctataaata aaataaattt ccaccgatcg tttgaattgt 420
 attatcccgt aac 433

<210> 32254
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 32254

agcttgccaa tggaggaaat gatgtctcaa tcaggggaatt gtctttttaa tacaatagca 60
aatcctttga aatttactac cattttatat gaagaggaga ctgagaaacc ttttctacac 120
tactaaaaaa aaggccttct acattagttt taatgaccat tttacatcgg ttatggcgtg 180
tggtggtaga ccctgtcgt tgaataacaa catcggttga agaactagtc ttagaattgt 240
ggacattcta catcggttct gaaggtagaa ccgatgtaaa atgtggacat tctacatcgc 300
ttgaaccttt agaaccgatg tacactgttc acattctaca tcgt 344

<210> 32255

<211> 419

<212> DNA

<213> Glycine max

<400> 32255

acaagtctac caaagtgatg gaacaaatta tgtcaatttc ataacaaaac attcagctat 60
tattatttaa catttcagga caaaagattg tgtggtggtt gtgcatccat tctcaagtct 120
atctaccaag ttatttgatg aaattcaaga tagagttggt agagatcgac ttggcttttt 180
tttcaatcaa ttgtttcttc actattttaga ccacaacaca attctctttt ggttataatg 240
tttcttagtg ttttttattg attgtatatg atttctatag tgtattttat acaggcctta 300
atagtatttt gattcccaat agtataattt ttgtacacag tgtgtacttg agttgcacta 360
cgttggttct tcttaatgca ctgcaatggt tctataaaat gataggttta tagaggaag 419

<210> 32256

<211> 188

<212> DNA

<213> Glycine max

<400> 32256

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ggcccttctt atctcttcga ggccataaac cagcagccac tcaatgaaga ttcaaactct 120
tgctatacga gcattgcaga agagcaatgg tgcacgagca acccttttct catgaagacc 180
cttctctt 188

<210> 32257
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 32257

ttcataagtg aaatcaggtg tagccatfff cctaagtgtc ctctcacgag atggaggttg 60
 agccgtgttc tcagtatgaa aattagtagt tgaatgtca aaatcagaat attcagaatc 120
 accagcaaca aaatactcat agtggtcaaa atgtcagaa tgcacaaaat gaacaggatg 180
 cacactatgc ctaagtaatc tatgaaaggt tctatctatt tcaagatcaa agggttgtaa 240
 atcacctgga ttgcccctag tcatgcacta tatgcagcaa atcatgtatc tctcaacaag 300
 cacctaacaa gggggtaaaa ctacagctat actcaacaa tatccaaatg agctgaaatt 360
 gtgtgagcca caccctacca tcatgaaaag at 392

<210> 32258
 <211> 222
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32258

tttgtctatc aattggaagt caaatgcacc atgcatgaga ttttcgatgc tgggcaggcg 60
 atacgcatct ttacgatgtg ctttattgag gttggtgtag tctgtgcaca tgcgccattn 120
 ttcattggcc ttccttacca agacaacatt ggccaaccaa gtcgagtatt agacttctct 180
 gatgaattgg gcttacggca gattgtctat ctctcccccg ac 222

<210> 32259
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 32259

actccgttta gatttaattt acataaaaaat aattttcttt ttgtcagttc acttttggtta 60
 tgattaatta taattggctt gtcacaaagg tttttaaaaa tggttcccat tgtaattgcg 120
 attgtaaaat taaagatttt agagttattg tgacttcatt acaactataa ttatgattgc 180
 atcgaccata tttctctgta atttctcacc acatcaaaag attgtaacca aagtgtgaat 240

[illegible]

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<223>      unsure at all n locations
<400>      32260
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<210>	32261
<211>	462
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      32261
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<210> 32262

<211> 479
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32262

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 gatcctttat agtctacctg aggcaactctc tttatttgat cgcgtgatca atgggtcggg 120
 gtaaataaccg tatcctacct cctgacataa tacctaaaat catatccttt ctagaaacac 180
 taactgctaa tctttgtact tattctgttt ttatccgtac acatttatta acttttcctt 240
 ttaatcttct ccattcttct attacatatg atatcgatct catatactac aatcttaacg 300
 ggccccattc ctattctata tcctttatac atcccaaggc tcaagcgctt aaacttgatt 360
 tacaactgaa ctgatccata ttccacaaca tattttctat cccaacatca aacccaactc 420
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<210> 32263
 <211> 398
 <212> DNA
 <213> Glycine max

 <400> 32263

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 accatacttc ccacgatttc cttgggtatt tatcaggcta gttatgccgc cgttgttttt 180
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 tgggcagctt accaagatat ctttcttcgc tgacacga 398

<210> 32264
 <211> 343
 <212> DNA
 <213> Glycine max

 <400> 32264

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<210> 32267
 <211> 414
 <212> DNA
 <213> Glycine max

 <400> 32267

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 cccaaaacca agcttgacca atcccgaccc aaccgggga tagtcagtca gtgagaacct 180
 gtgatgtacc taaacaggcg agctcctggc agtcaaccga taaaagaaca aagaccacaa 240
 accaaggagg cttgtgtggt ggctggccag ctatggatct tgagtaatat ttggaatatg 300
 gcctctggta atcgattacc aagggtggtt aatcgattac gaggcttaaa aatgaagaca 360
 cgaagttaag atggcctctg gtaatcgact accaaggatg tgtaatcgat tacc 414

<210> 32268
 <211> 218
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32268

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 gtgacttgag acacgaattt aacaagagtt tctcagaaca naaaggtctt atcctcttat 180
 aaagcacaat cgttttattc tcttacaaat tccttgcc 218

<210> 32269
 <211> 417
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
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 agagaaggag ctattagcga tagcttttgc tcttgagaaa tttcgttcat atttgcttgg 120
 tactcgtgtt attgtttata ctgaccatgc agctctgaag tacctgttga agaaggctga 180

atcaaagcct agattgatca ggtggatgct ttggatccaa gagtttgatt tggagatccg 240
 tgatcagagc ggtacacaaa acctcatggc tgaccacctg agtaggattg agcgtgcgcc 300
 tgaggactca cccattcggg atgatttttc agatgaccat ttgtacattc tgtataagat 360
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<210> 32270
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 32270

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 gtccattaag gaatatgcc aaagatggag agatcttgta gcccaagtcg taccgccaat 180
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 gctataggct acatcccact aactttgc 268

<210> 32271
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 caatcttcat gatttacatt ctcccccttt ttgacgatga caaccacttg taggttacga 180
 gcaacaacaa aacgaaacga gaaaaaaata taaatcgcat agtcaatttt cttagggaga 240
 aatgtggcct ttgtttgttg tcttcataaa tcacatatcc atttatcttg gtgagaaata 300
 tgaataaact ttgatgcatg ccatgtgttt gaagaaattg ctatcaatgt atcaactntg 360
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 atca 424

<210> 32272
 <211> 172

<212> DNA
<213> Glycine max

<400> 32272

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agtcctttatc acaacatata cttattgtcc ttactatatg ttccctcttt ttaaattaat 120
tcattcagtg tgcctaaact tacgctatct acctttgtcc tatgaatagg ta 172

<210> 32273
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
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ctcttatc 428

<210> 32274
<211> 143
<212> DNA
<213> Glycine max

<400> 32274

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tactacactg gaagtactag agg 143

<210> 32275
<211> 200
<212> DNA

<213> Glycine max

<400> 32275

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 gagatgtacc ctctcttggt ctactcaaa cccaagcaca tgtaccctct acttgtacca 180
 caaaggatgt accctccaat 200

<210> 32276

<211> 426

<212> DNA

<213> Glycine max

<400> 32276

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 catgttttagc ttctgtcttt gatgggtaag ctttggtttg cttctacctt ttaggtgggt 180
 aagtgtgttt gcttctgcta agtgggtaag catttgtgtg tggcttctac ttaatgggtc 240
 aacatattcc aattgtcttt gaatgttttt cagtcatttt caatctgctg ccaatgtgtt 300
 tccggcatgt ttcattgtct atttttctac ttgtattgtt catcccaagc tggaagtgtt 360
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<210> 32277

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32277

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 atattcaaat ggtcaaagtt aaaaaaatg cacacacatg acctctatct atagcctaag 180
 tgtcacacaa aattggagag aaattcgaat ttcaattcaa atttcacttg aatttgaaat 240
 tgaatttgtg gagacaaact tcggagccaa aatttcacta attatgatta gtgaattnta 300

gttatggttc agcccactaa tccaagatca atctcaagat tctccattaa gcgtgcttan 360
gtgtcatgac gcatgtaaag catgaacgac atg 393

<210> 32278
<211> 405
<212> DNA
<213> Glycine max

<400> 32278

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agctcatatc cttgtggcaa tgtaagcact aagcgattcc ttttccgcta agcgcatgct 180
tctctgtact caagattgca tcatttttagc taagccgact tggtgcccgg cttagcgaga 240
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cctttgtgca aaaaaaatt tgattttgaa tttcaaacat cggctaagcg cgcaaaccg 360
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<210> 32279
<211> 163
<212> DNA
<213> Glycine max

<223> unsure at all n locations
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aacttaacga ctttaactctn tctagaagct ctttttattt aat 163

<210> 32280
<211> 422
<212> DNA
<213> Glycine max

<400> 32280

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<212>	DNA
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<400> 32282

<210>	32283
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<212>	DNA

<213> Glycine max

<400> 32283

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<210> 32284

<211> 429

<212> DNA

<213> Glycine max

<400> 32284

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catttcccaa tgctaaagtc acctaaccag gcacacaaat gggatgatcag accaaaagca 360
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<210> 32285

<211> 250

<212> DNA

<213> Glycine max

<400> 32285

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caattagtgg agtggtttatt gttttattat catccggata aaaaagtaac ttgagagctt 180
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 <400> 32291

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 aatcaccagc aacagaatac tcagaatgct caaatgcac agaatgatca ggatgcacac 180
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 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
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 aaaccaatth cgaatccata tatattggag cagcactgaa gcaagtcaca nacatgtttg 240
 caatcagtct cgaacgtgac gttgttgcg ccaactcaat cgtcct 286

<210> 32294
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 32294

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 acgagctttg gagctaacag ggttctaaca actgctgtac accaaaaaga aacaaactcc 240
 ctagcaagct ctggcacaaa gcatggacaa atgggggtatt acaacatcaa agaatgacca 300
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<210> 32295
 <211> 222
 <212> DNA
 <213> Glycine max

<400> 32295

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 aagtaaaatg accatatctc atctcacttt tcttcattgt ccggatcgac agcacgaaaa 180
 tcgtcagtga accaggccgg gccgaccttt cgactaatga at 222

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 <212> DNA
 <213> Glycine max

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attcttataa ctaagaaaaa tgcacccata tacaatcaag gcaccttcgt tacctagatt 240
atttacatgt acttccaagg tgtatttggt accgacatca cacacatttc ctttgctaaa 300
ttcacatata tgcatactct aagcactttg gctatcaaaa attgcatacg tgcacatctt 360
ggatatttcta atacctatac atacacaaac ttcattgatga atcttgacta tctacacaat 420
aagggtgctac atttcatggc cctttttt 447

<210> 32297
<211> 210
<212> DNA
<213> Glycine max

<400> 32297
agtttgacct atcccgaccc aaccagggca tagtcgggtca gtgagaacct gcgatgtacc 60
taaacaggcg agctcctggc agtcaacaga taaaaggaac aaagaccaca aagcaaggag 120
gcttggtgtg gctggccagc tgtgaactct tattgatatg tgggttatgg cctctggtaa 180
tcgattacca aggggtgggta atcgattaca 210

<210> 32298
<211> 289
<212> DNA
<213> Glycine max

<400> 32298
ttcgctcacg acattatata acacgccctg agtccatcga atttgaacca atttttaaca 60
acactttaag cgctttctat agagaataac gtataacaca cgtactctat agaggaaggg 120
agagattgta gagactaact atactagact cgatataaaa tacacgttat ttgagcgatc 180
tacaaattga tacccttcac tgcattgtgaa ctgaagtaat tgcaatataa tataactgtc 240
acagaaattg aacatgaaag actaatcaat tgcaacgtca cttgaagcc 289

<210> 32299
<211> 274
<212> DNA
<213> Glycine max

<400> 32299

agctttgaac tattgtaaga cacattttct gcgaccttcg cgattctcga ctccatttca 60
ttgaagcgca tatccacttg taattccaaa gtgtcaaccc tctcaccac aaaggtctca 120
agaccatcaa acctgtccac aatcttcgaa agaagagatg aatattccac atgatgccct 180
tctttaccaa cattctgacc acccttcttc acccaagacc catcatgccc tttctgataa 240
ccaaaagacg ctatgactcg aacgcctata acga 274

<210> 32300

<211> 429

<212> DNA

<213> Glycine max

<400> 32300

actcgccac ttacatcaac cagtatatta gcacacttga tatctcttta aaattgaata 60
attgaattga aacgctcaga atgtagcaaa tcaatgcaaa ttcaagatat ttaagaagtt 120
aatttccaag cactgcatcc aactttcatc ttttgcaatg attgaaagtc aagcattttt 180
cacaatccga ataaaatctg tcaaagcaaa actcatcttc ccgagcggag aatcatactc 240
agtatctggt ttctcaaaaa ttttctcaat ataaatatat gtgcaaatag agctataaca 300
tactctctaa tataagaaca gaaatactat aactattggt aacacatggc tagaatgcta 360
acttgtaaaa gaaacttcca ggacttcagt agcaaaatat tcttttattt ttcaattcat 420
aatgcatat 429

<210> 32301

<211> 326

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32301

agcttatgat ataagaagtt gggtttcttg attatgaggg aacaatatat tgcatgccct 60
ttacaagtta gatggtggct ttgaattaat attaatggac atcactagtg ggtttttcat 120
ggttagtttt gatttggata ctgatcgagt attcgaatgc gcatgtgttc ttcatcatt 180
acctaactga ttgtccttga acactagatt tctcaccaac agaggcggca tggatagaac 240

cctagcctaa ctanctangt ttggtttcag gccttacgat gatataattac gatgagtgc 300
ctcttatata tccaatattg ctttat 326

<210> 32302
<211> 266
<212> DNA
<213> Glycine max

<400> 32302

tgagatccct acagtgcctc tcatgagtgc tcacatcaga cagcaccgag aactgcctct 60
ggttgcacct ctgcacacg tacattttcg ggcagtggct tatcttgtaa tgggtcttgg 120
cactcatcat tgacttcagt ggctcgccct tggcatgcct ctggctccac ctacacacct 180
cttgaagaca cgaatacatc gttggcttca cactcatcta acactctata cctctgctga 240
tcttacatgc gtgactcata tcagca 266

<210> 32303
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32303

cggaacaag gcaagaaagt tagacacttg aagcttctat aagccaatat gcacaatcat 60
attgtgcta catgtatcga attaattctc ctacgtaat gaataactgt ttagtaaata 120
taattgatac taaataaaaa taaaaatgat acttggatta acatgtcgtc cacttgggaag 180
tatatcacat ttgattgcac gcttgcggtg aaagggaata caaggaaaaa acaaggattt 240
cacaacctaa aacttctgaa attaacacag aaaaatgcat ttgcatcat tttctagtag 300
ctatccacgt ttggcactta aaggaacatg ctttcatcat ggggagtcac cctaaacact 360
accttgaaca ttttnccaag gattgacctc tgtctattct attctct 407

<210> 32304
<211> 107
<212> DNA
<213> Glycine max

<400> 32304

ccttcgagcc tattttccac cttctttggt tcaaagctca ttacgagcct taaccgaaaa 60

accatgatgc cagcttaccc ttaacgaatg ttggagcttt ggaattg

107

<210> 32305
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32305

atccaccatc ctagcggttac aatattttatt aatcatataa tngnaagcat aagcattagg 60
cacaattcca cttggcttca tattctcata catttaaaac cttcccttt gaaggccttg 120
cttgaaaaag ccgctcatta acacaccaca actatggtgg ttggcaacca aaccaacct 180
atccatcgtg caaaacaact tctttgccag cctaacatct gcactcttgc aacaccata 240
aatcaacgta gtgtatataa caacattcag agagaaacca aactcttnca acatggccaa 300
aagccgaaac cctttcatca agtcaccagc ttcacaacga cccttgatca taatcccaaa 360
actgtaggca tccataacaa ctttacgctt gaattcatta tatacccacc aagctatatc 420
gaaacaattt 430

<210> 32306
<211> 322
<212> DNA
<213> Glycine max

<400> 32306

tctgttttga ctgaaatcac gcaccacaat tttttttttt taataaaaag ttcacttttt 60
tagcgtaaag gttgaagatt ctttgtaaac aattttcatt aaaactcatg tgatatgtgt 120
gtgattcggc tctatacata aattaaatgt cattaatgag tacggggaag ataatgtaac 180
gttttagtaaa taattaggag aatatttgta gggttctaaaa atagaaaaaa atatgtgtca 240
ttttctcaaa tttttgagag aaatccatat cattcactca tataaacatt gcatacaaat 300
atatattgaa tataacaata tc 322

<210> 32307
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32307

atactcacgc ttgccttgcc ccttgatata tttgaggggtt tcatgggttc tatgaatgac 60
atattccttg ggataaaggt agtggttgcca tgtattcaaa gcccgtacta aggcatacaa 120
ctgcttatca taagttgaat agttaagggt gggaccactt aacttttcac taaaataagc 180
aattggatgg ccttcttgca tcaacacagc cccaatccca acatttgaag catcacactc 240
aatttcaaaa gatttttgaa agattggcaa cgcaagtatg ggggcattac ttagcttttg 300
cttaagaaca ttgaaagctt cttattgttt gtctcgccat atgagaccaa cattcttggt 360
gagcaattca ttgagagggt cgtgcaatgt gctgaaatcc ttcaaggatc ggctataana 420
acttg 425

<210> 32308
<211> 246
<212> DNA
<213> Glycine max

<400> 32308

agtttcggta ttcaatttct agcgtctcga ggtattacgg gactgaatca gacatccgag 60
taaaacgcta ttgtcgtttg aaaatcctca gagctttgga acttaatctc gagcgtctcg 120
atatattacc ggtctcaatc agacatccca gtaaaaagct attgccgtct gaattagctc 180
tgagggttcag aattccaatt tcagcgtctc actcattacg ggactcaata agacattcga 240
ccaaaa 246

<210> 32309
<211> 294
<212> DNA
<213> Glycine max

<400> 32309

agcttttatcc gcagatccct cttgtaagac taggcctaga ctaaacaaca ttattgtaac 60
aacataatta aaacaaaac ttaatccgca gatccctctt gtaagattaa gtttcgatcc 120
tgcttcaatc aagttctaag gcaacaatac atttcccaat gctaaagtca cctaactatg 180
cacacaaatg gattattaga ccaaaagcat acaaacatta agcattgaat agggaaaaca 240
tcatcaatta catattaggt atttacaatc gctgttcatt agaaatcccc aact 294

<210> 32310
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 32310

tccgctttat aagtgcgggt ctgggagact aaggccaagt ggtctcgatg tgtgaagatg 60
 atgttccaag acctctggat ttgggccgac catgccctcc tgatttccag ctgggaaatt 120
 ggcgggtgga ggaacgcccc ggcatttaca caacaagcat aatatccgat gacgagtccc 180
 ccgaaggtag taatacctgt gacccgtcta tcaatttcga gcacgaaatg agccaaacgg 240
 aagatgaacg agatgagggg gtgggacttc cttcggaact agaaaggatc gttgcccattg 300
 acgatcaaga actggggcgt catcaagaag aaacagagca tagagacttg agaattggca 360
 gtggaaagag ggaagtaaag atatgtgcag gcattaccgc acctatccgt gacgaattaa 420

<210> 32311
 <211> 240
 <212> DNA
 <213> Glycine max

<400> 32311

agctttgttg agacaacttc cttgagaagc ttgtttgaga aaacttcctt gagaagctag 60
 agcttagcta cacacacccc tctaataact aagctcacct gcttgagaag cttacttgag 120
 aagatctcta cagaagctag aacttagcta cacacacctc tctaatactg aagctcacct 180
 acttgagata agaagctaga gcttagctac cacacccta taaaactac gctcaccccc 240

<210> 32312
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 32312

tgaatattat gtgcttatat ctattccac cactattggt ggtctctagt agtatcttgg 60
 caccaaatac tcattggtga tgatatttca acttataagt tagactctga tatcaatgat 120
 tcatatttgt cactattgca ttgaacattg atattgttct taccactaat tgagtagata 180
 tgttacttga ctatattcat acttagattt ctttacagca agaaatcatg atcttagata 240

attgttggtt gtacactgcg acttccgcta tcttttgtat tcactactac atgatacatg 300
 agtaaatagac ttccctgctgt gagtgaaaat aaacattgta gttaaattca cattacttta 360
 tctca 365

<210> 32313
 <211> 312
 <212> DNA
 <213> Glycine max
 <400> 32313

ctctttatca cgatttgctt acatgcaagc taggaaatca acaccttcat ctactctctt 60
 catcattcct cttcatttta tttctgagat acaagcttta ggtaaggggg ctctttcatg 120
 tggtcatggc aatagacaat ggaatcctca aatgtcacct tatatatctg cacagtgtaa 180
 gggcattcat attacaaatc ttattacaac tgctccggaa aacatgggtct gtctggggag 240
 ctcacccatg tattctgcat atctttctca atttactgct gaaaatacaa tttcatgttg 300
 aattggatga ac 312

<210> 32314
 <211> 267
 <212> DNA
 <213> Glycine max
 <400> 32314

tactgggtcta actatttcgt gttctgctac aaggtgcaca acaagtgcac aatcccacgt 60
 actggcctca tgagaatatg ctatctgttg cacgtctctg actgtttact cgatgaatca 120
 gattgtgttt gatgacctga tagcagctgt agaagaacca cgagcagtat gttctgctga 180
 cttattaact tttgatattg tatcttctgt tgtccccacc agggctaagt ctctggctta 240
 ctattgtgct cttctgcat accctac 267

<210> 32315
 <211> 127
 <212> DNA
 <213> Glycine max
 <400> 32315

agcttgtaac acctaacaga cgatggcaga cgatcatatc tagaagttga agacaatatg 60

catcccctat actagcacac gaatggattg cagaagagtt cacagattat aacacaggaa 120
tactgcc 127

<210> 32316
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32316

tatctgacaa agatgcgtat caacagtttt tgcattctct tgattatgtc aagattcana 60
ataatgtaag ttctatttct ttactctaata ttctagtgat ttattacctt ggaactggta 120
tttttttttt ggaaggcgaa gataatatat tatatatgaa accaagtacc agaggtaacta 180
cataatacag aaaaggctct gataatcagg agatacagca cctccacag atgaaaaccc 240
tactaacaga agctttaact aaaagctata gacatatttg aagaccaact ataataagga 300
atctggaaat tcctttccca acccctcagc cagggtccata agagaaacag agtgctatct 360
gtcagtctag tgatatcaaa cgttngattc tggaaaatta tatcatttct gagcctccaa 420
attg 424

<210> 32317
<211> 268
<212> DNA
<213> Glycine max

<400> 32317

agcttgaatt ttttcctaaa tatatttatt gtcacattta aaatatcatt taaaatctgt 60
tttggattat atatcaaaat gttatgatcc aaccttaacc ataatacatga ctaacataag 120
ctatgtttta taagacattt tagttaattc tttattttta ttagttgaaa aactcaattg 180
ttcaataaac aagttttttt aataccttct aatctttgat atcttttcta attctacatt 240
ttctaagtac tctaacatct aactttac 268

<210> 32318
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32318

acccaacccg ggcatagtca gtcagtgaga acctgtgatg tacctaataca ggcaagctcc 60
tggcagtc aa cccgataaaag aacaaagacc acaaagcagg gagggcttggtg tgggtggctgg 120
ccagcaatga gtcttgagtg agatttgga tatggcttct ggtaatcgat taccaaggggt 180
aggtaattga ttacaaggct taaaagtga gacaggaagc taagatgggc tctggtaatc 240
gattaccaag ggagtgtaat cggttaccag gcttgaaaat gagatcacga agctaggagg 300
gcttctggta atcgattacc aaggggtgta atcgattacc aggcttanaa atgggactgg 360
aatgttgaac gggcctctgg tgatcgatta ccaggctgtg tgatcgatta cacagaggaa 420
t 421

<210> 32319
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32319

agcttgtatg attatgggggt acctatcaca tgtggtacta ggtggcggtc ggggtgatggt 60
gcacaacaag tttttccaca tccacaaagc gtgcataaac ctaccatccc ctgttgccca 120
cctccaactg agctcacgta ctcccacgta gcccatatcc ttgtttctct caacaccggg 180
tccccatcaa tcttcccaag cttccacaac atccaagtaa tacaacattt aaacagcaca 240
agctatcaca gcaaaattct tctgcacttg tgcaaaattc tgctgcacaa tttcacagca 300
aaaatctgca caaagtgcag atttcgaaaa ccacacttcc nctcatcaaa tcttgcccaa 360
atcaaatcct acaagtccca aatcatgtat caatcat 397

<210> 32320
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32320

cttctgtgcg aggcattttc tgtaccagca gcagagaaat atgagtgctt ataaaaaacg 60
tgcttctggg ggtgttggtg tgccccagac aagaggaatg aaacaaagaa aaaaacctga 120

aggtgatttg gaaaatgggg ttgtgggtgc tggagttggt ggcgccgatg gtgatggcgc 180
 cgatgggtgat cacactgggtg gtcccatgt tgttgaggaa tttgctgggc tttttggtga 240
 agggcatgat ggtgggggtga atcttggcctt gggttgtgaa agttttgacc tttgggggtga 300
 agtagagggt cagcatgttc atatgggtgg ctttggggga ggatgtggga aactgggtca 360
 ngttgaaggg caggttctag gtcagccatg gagcaatgca aatgctggtg 410

<210> 32321
 <211> 381
 <212> DNA
 <213> Glycine max
 <400> 32321

agctttgttc tttttataaa atgagaagct ctggactcat tacgttatct aaaaatcttg 60
 ggggtggatcc aagtgtccg atcatccatt tgcatactca tgtttggcgg catactcacc 120
 gttgttcatt tctttacgaa ttccatcata actaagaaaa caccaaggca cccctataac 180
 actcgatcca gaaaaatgga taatgaagag ggcgtgcacg aacagatgaa ggccgatcta 240
 tcggccttaa aagatcaaat ggcttccatc tcggagggtca tgttcaaact ccacaaaacc 300
 atatatgata aagccaccgc aaccgcctca gtacagctag ggaagcggag ccgtgctgaa 360
 cccgccttaa tccgggccta a 381

<210> 32322
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32322

cttgaacata cgaccttgta aaaattaatg ggaattgggt tctacgatgt ttgagcttaa 60
 atttttactt cattttctat aaatctggaa aacaattata aaaaagaacc aagtgattta 120
 gataaaagaa aaaaatatga aaaatcacac aagttggcag gaaaatcagt gtctaggaaa 180
 aaaaagtgaagggaagtgt gaaaacaagt gccaaaacta gaggtttctt gagtcttatt 240
 tttcttttag ttttttact ctactctaga gccatttttag gtttcccttt gagtccctagc 300
 ttgcttttat gtgcttttca ttgctttaat tgttgaataa tccttgaaaa tgtcttggtta 360

aaactttatt ggtttagctc tcatttcatt cttnttggnc tttggntatt gcttgtctct 420

ttgttttctt ggttgtgag 439

<210> 32323

<211> 271

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32323

agcttcttct tatagtccac ctttgcttga ccttctttat gcttaaaaat agaaacatta 60

cgcaaaagat caagaggagt tagtgggtta aaaccataaa caacttcaa aggagaacaa 120

ttagtggtgc tatgaacaac tctattgtaa gcaaattcaa catggggtaa acaagctctc 180

caagttttta agttattcct canaactgtc ctaagcacag ttcccaaagt cctattaaca 240

accttcggt gcccatcgt ttgtgggtga c 271

<210> 32324

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32324

gtggtcttcg gcatcacatt ttaacttgat ccatcggcga taagtaccgt ggcgacgaca 60

tggtccatac atctcaccga cacatgtaga gccttggtgt gtcctctccc ctcaacggga 120

atctcttctt tcgcaaacac gatataattg ttggcgggtta tatgattaac gatgccttcg 180

aaaccctcca ctgagatata atgtgctaca tgggcatcga taaggacctt tatcaacagc 240

gcacgatgag gctcggagtt tatgagcaga tcaagcatag agatccttgt tggagtttta 300

ttcaattgct cgactacctt aaactcgcta tgctggatga ggcagaggaa ctcatgggcc 360

tcttncaaag tcacggtctt tccttgaaga cctctttctt ttcaag 406

<210> 32325

<211> 200

<212> DNA

<213> Glycine max

<400> 32325

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<400> 32326

<210>	32327
<211>	251
<212>	DNA
<213>	Glycine max

<400> 32327

<210>	32328
<211>	426
<212>	DNA

<213> Glycine max

<400> 32328

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 tttcaacgga tgagacgaaa accagcttaa tttacaatac gatttttcagt attttataat 120
 ttgtagcagt accacctatt aggggttgggg tgtgggcata ttctcataga cagaaaatgg 180
 gtgacatacg catgatatga taagcttaca ttacgcaagt aatttttttt tatatatatt 240
 aattatagta tttcgtaaaa tgcgctgtgc ttttcttttt ataactttta gggtagcгаа 300
 atacctttgt ttaagtgcac actagctata ccaaaaaatt acgatagtaa aatgtgtgtt 360
 ttattaaaaa gtacgatagt aaaatttatt aacggatata tgagcatagt cttttattta 420
 ataaaa 426

<210> 32329

<211> 273

<212> DNA

<213> Glycine max

<400> 32329

ttctgtttat actaaatata tatgattgtt ttatatatag attaagttaa aaatacatta 60
 gacttataag atgggtttca aaagtattaa tagaatgaaa ttttaattag catgttacgt 120
 caagttaatt acggtattga aaacaaaaaa aatgtaaaca ttcccatagt gcgcaagtta 180
 attacggcgg ccactttatt tttaactttg catgttggtt ccatatataa tgaaacacat 240
 taatttgaaa atgtgcatgg aggagagttg ttt 273

<210> 32330

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32330

tccttattnt gtaaaaacac ttcctttgaa aaatttggtc ttgcccaact cttttcttcc 60
 attgttccct cacttccttg cttttggatg ctattcatgg agatgggtag ccaaaccctc 120
 cgttgttggg gttagatgta tccgaaccat atgctctcat gtattttttt gaaatagtgt 180
 tatatatattc tcttattctt caatgttagc tttttacttc tatgcttcat gcttggtatg 240

attcggccac tcatagcttg attcttggat gagtttgcta ttggaaaata ctttctttat 300
 cttgaattgt ggtaaaaggc tcattaaacc ttggagctag gaataagggtg agaggtaatg 360
 gttatctttg ggtcattgag cttaaaccac gttcctttgt taaatgttca agggattgac 420
 atttaat 427

<210> 32331
 <211> 347
 <212> DNA
 <213> Glycine max

<400> 32331

agcttaatac ccaaaatgac atctatagga ccaaggctct ttatatcaaa attactagac 60
 aagaaagact tcacatcatt tatgaaatgt atattactat caaatatcat tatgtcatct 120
 gcatacaaac ataaaatgac acatccaata tcatcaaatt gtttcacata cacacattta 180
 caactattat tgatttgaaa accatatgaa agaacaactt gatcaaactt ttcattgtcat 240
 tgctttggag cttgtttcac accacataaa aatttacaaa gtttgtaaac tctcttttct 300
 ttacccgatt ctacaaaacc ttacgttagc tcatactaaa ttcttct 347

<210> 32332
 <211> 159
 <212> DNA
 <213> Glycine max

<400> 32332

tcaagctttt ggtacaaaga ttaagaacaa gttcaaagag atttatggct tgtaaaagat 60
 tgattgaata agtgttcaag atacttgga tgcaaaacaa agccttgctt ttatagactc 120
 ttcattgtctg gccaaagacaa ccattagaag agttatgac 159

<210> 32333
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32333

tcagaccaa gcattctana atctatgtat ctaaaattcc tcaatttagt ggatttcaag 60

gtttgagaag tgaaaatgag aatggggtaa atttggagca aactctcacc tcacacaagt 120
 ctataacctt aatctaaact tgctcaaact ggttttacgc ctaaaattcc accgaatcaa 180
 aatttgactc ctcaacaccc agttttaccct agaaatggct cttgccttca ctttggtcat 240
 tcatttttct cctttgcaca gccaagctt tcccatagtc ctaaatgaca tttcaaacta 300
 tgattaactc cctttaacct ccaattacta acaaatccag atttaacctt tcaaactctc 360
 aaagcatcac ttttttccac tcatagcact acattctcac tttctaacct t 411

<210> 32334
 <211> 164
 <212> DNA
 <213> Glycine max

<400> 32334

agctctgatg tttgtgttga atgcattaaa ggtaagctga ccaaaagcaa gaaattaagt 60
 gcatatagag ctacaaacgt cttggaattg atacatacgg acatttgtgg gacattccat 120
 acaccgttat ggaatgggtca acaatatgtt atatcatgca taga 164

<210> 32335
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32335

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 gtcgttttctc cgggagcgac gcgtccagct cagggagcagc gagtatactg atttccagga 180
 ggaaataagg cgccggcggc gggcaccatt gggtactccc atggccaagt ttgatccaga 240
 aatagtcctt gagttttatg ccaatgcttg gccaatagag gagggcgtgc gtgacatgag 300
 atcctgtgtt aggggtcagt ggatcccggt cgatgccgac gctatcagcc agtccttggg 360
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 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 ctcagctcca aactcgaaaag tggaggacac acgaacaacc ctaagcaaga acattcatgt 180
 ggctccgaac aaggacgaga atggaggatt gccttgaggg tcctctctta tgcaatcatg 240
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 tgt 303

<210> 32337
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 32337
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 caacagacaa gagcctccat tcagagtctg acaaatcaga tggggcagat ggctactcag 360
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 aaaaatgtga gtgtcat 437

<210> 32338
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32338

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 cattcagcta atttgatgtt ttaaatctaa tttcacgaat taatgaagca ttgggcttga 180

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cttatcttat ctagatttga tttgatttta cttatgggct tggattttaa acatatttgt 360
aagctttggg gctgaaaaaa actatataac agcaccaagg ttctagttaa ggggactccc 420
tctctccctc gcggg 435

<210> 32339
<211> 272
<212> DNA
<213> Glycine max

<400> 32339
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tcctcacatg tcttgtgcta aatgttggtt acatgagtct ttatagtttc caccgattaa 180
acttgctata gaagctagat ttgattttct atggctcaca tttcttggtc tttgtcttga 240
accatgactt gtgctgagtc taggttcctt tg 272

<210> 32340
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32340

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aggagagat ggagataatt caatgtgaga aagaagtggg gagacatgga ttagtttatt 180
ttctttttta ggtcttttct aaaagttaat ttccttttaa tggatgcatg gacatgtcaa 240
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ttatgagtta atggctcatgc acaagcataa agtaaattta tcttatcatc taattacaaa 360
ttattgttta gatgattctt aagataatta ttgtaaaagt caataaactt atcgtacatg 420
atcatttgta attaaataac 440

<210> 32341
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 32341

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 catttcaacc atcctccgga tgateccatat gggtcttgggt atggaaactt tacgggtgccc 180
 cttgaaaacc cattcccagc caaaactaaa ccagattcct taaaaatgag ttctaaaggc 240
 tcattctgatg atgacattgc tgggtctgag gatgcgagtc cgacaagtca cgacagatac 300
 acaacttcaa tgaatcgctc tgctggaaat gatc 334

<210> 32342
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 32342

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 tctaagatta tctgccttgg gcttgatgta cgataagcca tagatagtga tctgccttgt 180
 tttcttgggc ttgatgttag cctattttaa aaatgaataa gctgcaaaac caattggaga 240
 aagtcaagtc tcttactcaa gatcttgaag aagggttga gtttctatct aagcgtgtga 300
 taatgattgg acttgccttt cttattccct taaaacacta acaagtaccc ttaaataact 360
 aactgcccc tcaaatacca acattatact aactactgtt cagcttccca aaatttatat 420

<210> 32343
 <211> 313
 <212> DNA
 <213> Glycine max

<400> 32343

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tggaagaagt ggtacagga ctgagtacca tgtaagtga attaatgca atcgccccct 360
aattcatact aggtttaatt ccatattttg tcccttgctt ttgtaaccat ttgccaatt 420
ctattacaac gtttttt 437

<210> 32349
<211> 239
<212> DNA
<213> Glycine max

<400> 32349
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cacgagattg ttcgttctga aggaatccga gtctcagaca gcattatggc gaaaatccgc 120
cacagaagta cgaccagaac ggacgaagag accgaacaac attaccaaac gatgggacta 180
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<210> 32350
<211> 421
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 32350

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caattcgcaa tcagatatta tcgagtgcta cggctccac ctatgactta gttcatgagc 180
ggctgctgtg tctctccatt ccacatacct tcggaccctt ttccacttct actggggatt 240
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actgccacta ctgcatgaac tgtgttcatg ctgaagaaga ctgtcacact caagcaagac 360
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t 421

<210> 32351
<211> 365
<212> DNA
<213> Glycine max

<400> 32351

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tgatgccagg cctacatcca tgcactcaag acccatttgc atgtttctctc tccagtacct 180
tgaacttcga ccattaacaa ctggaaccga atctacatta tcatatgcag aagccacccg 240
cgaccaacac ccccccaaa catacacaaa cctccatacc attcatcaat gcatctacat 300
aatgatatat ctcatgccac ggatgtcact gcaccactta tatgacgtct tcggacaggg 360
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<210> 32352

<211> 440

<212> DNA

<213> Glycine max

<400> 32352

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cataaatagg acccattatc tgcttttaaa cttgggtagg tgggtcttaga tggagacgca 180
cttcttttaga taccttattc tcaatcccta tgaagcaatg ggtttgaata agaagtatat 240
ggaggcgaat tcctttcaaa catagatcag ggctaagtat atataattta aagaacacta 300
ctaggctatt gaatgtcaaa cccacgtcat gattaactcc tacatgattg atgttttcgg 360
ccgcctgaat agttgaatta taacaaatat cctgtaactt tgacatattg ttatatatac 420
atgcaactcc tttctcccaa 440

<210> 32353

<211> 251

<212> DNA

<213> Glycine max

<400> 32353

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aaacaatttc aacacttact cttttctctc aaaatgagca cagtgtttcg agagactata 180

acaaaatgcc caaggcattt gtcggggaat tcgaggggag taaacaccag acaaatttac 180
 accaatgagc catgagcaac cacataaggg aatttaacac cacactttaa cccaaaacct 240
 taaggctcaa gtttatgggt cttctcctta cttatatggt gctcaacttt tcaacttcca 300
 tcctatgtgt gctcaacttt tatgggagca aaagaagaag ctccatgctt tgtcatccag 360
 tcagcacagt caatggggat tcattctcat aacttttgag aagataaaaa gaaactctg 419

<210> 32357
 <211> 183
 <212> DNA
 <213> Glycine max

<400> 32357

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 tattatatgg gtactaccg tagcatctct ttactttga tgctatgat ctattgcaca 120
 tatcgctggg acgtctatgt ccgatatgat taaccgttgc cttcatggg atgggagctt 180
 gac 183

<210> 32358
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32358

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 ccctgtcaga tacaatacta gaaggaattt catgcaacct tactacttcc ttgatgtaca 120
 actccacgag tctctccatt ctatacttca tattcactgg gataaaatga gcagatttgg 180
 tgagtcgac tactatgacc cacacagcat catgtccacg actagtcttg ggtaaactag 240
 atacaaaatc catagatatg ctctcccatt tccattccgg aatctccaat ggcttcaatt 300
 ctcccgatgg tcgttggtgc tcaaccttag ctttttgaca ggtcaaacaat cttgctacat 360
 attcggctac atctttcttc atgccatgcc accaaaaact tctcttcaaa tcttggtaca 420

<210> 32359
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32359

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 atagcattga ccatacatga tactagctag agagaataga aactattgat aatagtacac 120
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 ggctnttaat gcttatccta tatatatattat aatgacataa gtattttctaa cttgttacct 240
 cctaagagat tccctttgga gtccttactg gtnntgtaat cttttaactg aaacattgca 300
 ttttgccat gacgttgata caccgttgac tattttttat aagctaacat t 351

<210> 32360
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 aggcgcttcc gtaacgtttc cgttgggtgat ttgcggaagg ttttcgatcg ttcttcgacg 180
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 ttctatgcac ccttagtggt cctcatttgt ttttacgtgc tttcatttac attttattta 300
 ctttcgtag ccctttttga cgtgcttttag tcatttgctt aagttatttt ctgcgcta 360
 caaaaaataa aataaatttc caccgatcat ttgaatcgta atatcccggtg atttctgtta 420
 aaatga 426

<210> 32361
 <211> 234
 <212> DNA
 <213> Glycine max

<400> 32361

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 ggcttacctt ataagatcca atttactttg aatcttctga tcaatctgtt atagtgggtg 180

gaggtatata tccgttatga tcaattgctt caaagcattg aaggggagct tgag 234

<210> 32362
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32362

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 tatctctttc tctatctata accacagaaa cactaacgca gtgttgacta cttctagggt 180
 tattttgaga attttgccaa ttgaagtctc atgttatgct tcaaaggagg aaatttcaag 240
 aacaatcaag cctcttggtg aacagtactt tctgtggaa actcaaaatc cactcaaggt 300
 aatactatct attagtgtt cagtttgtat tacattttat ttttagcatg cattccacac 360
 tacacaaatg ttttcaatgt taatattatg aaattaatat agctgggtac gtatatttat 420

<210> 32363
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 32363

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 tccaataaaa atctatgtgt atatatgtgt gatgtgccaa cgcgtcggag tggccacgac 120
 tcgagagctc tatggtatgt aattcattca tgaaagaaaa tgagttaaca gtgcagtgat 180
 tattttatga ctgtatgata tacgagaaaa tgatcatgaa agaaaatata ttataccact 240
 tacctaattt tatgtatata tttatacatt taatttcattg 280

<210> 32364
 <211> 432
 <212> DNA
 <213> Glycine max

<400> 32364

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ccacatgagc ttcgttcaag acctttacca gcaaagcccg atgaggctca gagctcatga 120
gtaattccaa aagagagacc ctggctgggg ttttgttgag ttgttcaatg accttgaact 180
cactctgctg aataatgcgg agaaactcgc ttgcttctc tagcgacact tccttcttgc 240
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ttggcaggtc ggggggtgca aacacgcgac cgctgcgggt cacaccgctc agccccgtga 420
tattggttac ct 432

<210> 32365
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32365

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tacacacccc ctataatagc taagctcacc cccatgacaa acaacatgaa aataacacac 240
aaaagtcctt attacaaaga caactcanaa tgccccgaaa tacaaggcta anaccctata 300
ctactagaat ggccaaaata caacgcctag acgaaggaat annctattct aactattaca 360
aagataagcg ggctcatact tagccc 386

<210> 32366
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32366

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tgagaaacct ttattcaaac ctttcaaagt tagtgagaag gctaaaagaa aaattagga 120
acttagaaaa actaaatcct taattgaagg cgtaggtgac aaccatagtg aattactaaa 180
caagattggt agtttactta aagtcattcc cgataccccc caagcctcgg aaaatacttc 240

<223> unsure at all n locations
<400> 32369

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ccgagactga ggataattgc actgtgtgcc ttctacagta gtgttttctt atccgcatca 120
gccatcatct tttttgagtt tggcttctcc atcaagtgt tctaccaggc ccctgtgaac 180
aagaaaggct ntcattctca attgccata 209

<210> 32370
<211> 429
<212> DNA
<213> Glycine max

<400> 32370

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cattgctat 429

<210> 32371
<211> 322
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32371

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ggaagcagct tcatatgcta gcgtgactag gaatgtggtg atcagattca ttaagaagga 120
gataatctgc agatatgggt tgcccaagaa gatcatcact gataatgcca ccaatttaaa 180
caacattatg atgaaggaaa tgtgtgagga tttcaaaatc caacaccata atttcacgcc 240
ttattagcca aagatgaatg gngcagttga ggctaccaat aaaaacatca agagaatcat 300

ccagacgatg actatgtcat ac

322

<210> 32372
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32372

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cttagatttt cttcacggaa acaatttttc caagcaaatt cgaaggagag agaagtgcct 180
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ccagaagcaa ccgccttctg gaggaatatt ccagagggcc caagtgggcc tgggtgctat 360
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<210> 32373
<211> 392
<212> DNA
<213> Glycine max

<400> 32373

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tgatcccaac atggttggct cgtggtgcct aacacatgaa actaagaatg tagtgtgaag 180
tttcacgctt cccccctttt tgtttttggt ttgtagagga aaacgcaagg atgagcaaac 240
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gtatgaagag atgcttatgc gatgcttgat at 392

<210> 32374
<211> 380
<212> DNA
<213> Glycine max

Figure 1. The effect of the number of trials on the number of correct responses. The number of correct responses was significantly higher for the 10 trials condition than for the 5 trials condition. The number of correct responses was significantly higher for the 10 trials condition than for the 20 trials condition. The number of correct responses was significantly higher for the 10 trials condition than for the 30 trials condition. The number of correct responses was significantly higher for the 10 trials condition than for the 40 trials condition. The number of correct responses was significantly higher for the 10 trials condition than for the 50 trials condition. The number of correct responses was significantly higher for the 10 trials condition than for the 60 trials condition. The number of correct responses was significantly higher for the 10 trials condition than for the 70 trials condition. The number of correct responses was significantly higher for the 10 trials condition than for the 80 trials condition. The number of correct responses was significantly higher for the 10 trials condition than for the 90 trials condition. The number of correct responses was significantly higher for the 10 trials condition than for the 100 trials condition.

```
<210>      32375
<211>      232
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      32375
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<210>	32376
<211>	427
<212>	DNA
<213>	Glycine max

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ttgctggagt	taacaatggt	ggttgtaatt	tgcgtggaaa	gcaccttttc	tctaacaaag	120
tgacagttga	tctttctatg	cctttgatct	tttcatgtgt	ttgtctccca	attttagttg	180
ttggagtagt	tgcttaagtt	ccataagctc	acatgtgact	attgccatag	aacaaaatcc	240
aacttttgca	ctggatctag	taattatggt	tctcttattg	ctcttccatg	atattaggtt	300
tcctccagca	agaacacagt	atccttaagt	ggatcttgtg	tctaagggtg	acctttccca	360
gtcaacatca	gagtaatgaa	tgatcttttc	attgcctttg	tcctcatgta	ataatccttt	420

acctagt

427

<210> 32377
<211> 315
<212> DNA
<213> Glycine max

<400> 32377

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ctacgcgtcc gacaggattt ttcactgaca tggtagcaca ttgcatatag gatcgagtct 180
tagtatattt gttgcataac acttgtgtat tgatcaatat tgattgggtg agtgatatcg 240
tgtcttgatc ctttaagtacg tgaatgatgc gaaaatatgt gacacgcgta ccgtcgagat 300
atgatgttat gtgat 315

<210> 32378
<211> 493
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32378

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aanannattc aagtgagggg cncgagttat gtctctttta tcacacaaca tttcggggat 120
tattgtggaa catttccga cacaagaatg tgcggtggtt gggcatccat cctcaagccc 180
atctccccag ctatttgatg taattcaaga cagaggtggt agaaatcgac ctggcctctt 240
ttctcatcca tcggctcttc actatttaga acccaacaca atctctcttt ggctatcatg 300
ccacctagcg tcttttatcg atcgtatacg atccgtatag tggcttccat acaggcccta 360
atactattct gattcccaat agcactattt tctgtcacag tgcggactct gagcgacta 420
ccttggtat cctaactgc ctgcaacggt cctatacact gaacagctca actcaggaac 480
ctgacccttc tct 493

<210> 32379
<211> 248
<212> DNA

<213> Glycine max

<400> 32379

agcttgatgg tacactaagc ctcacatctt aggctaagcg catatttcag aaaaaaattt 60
ggtgttgag aaagctctaa gcgcagcttg ccgcgctaag ccccaaagtc ttacgggatt 120
ttacaacttt gagttgggct tagcgcgacg ctaggctaag cgctagtgtt ttaaactcaa 180
acttcacggtt ggcatgataa gccagctga gcgcttttagc gcacatacga atttcagttt 240
ttaaatac 248

<210> 32380

<211> 407

<212> DNA

<213> Glycine max

<400> 32380

tgtcaatata gctcttcttt gctttaaact tacttgtctt tgattaaatt tagacttagc 60
ctatagaact tgagagtgtt aatttaagca tagacttagt ctatgcttaa attttcattg 120
tggctgaaca actgaaaata tgcacaatg aaaatttaag catagcggtt tgaatttaag 180
catagactta gtcgatgcat gatccttttt ttctctgaat aaccttagca taatgtttta 240
tagcacatta atctgtgtta agctgcattt ttcttataac atttgaaggg tctggctaca 300
ttgagcacat agatatactg atgtagtaga cttcacctca ctgggaagac ccataatct 360
acgcaaaaat aagtttgatt ctgcatttac tatcccagga ggtaac 407

<210> 32381

<211> 217

<212> DNA

<213> Glycine max

<400> 32381

agcttgagaa aaaacttgaa gatatcctgt ctattacata cccaactcct ttgagtgata 60
tttgcattga ttgttataat gaatgttgca tottagccca tatcatatct ctgatcatc 120
atgctcatc aggagtaagc gacaaaacca tttctatagt tagaacatgt ctctctacaa 180
gacacacctc tctgttttaa ttgactacca ccttatt 217

<210> 32382

<211> 418
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32382

 nttegattca ttctatgcac ccatagaggt ccacattgtg tttagtgcac tntttctcgt 60
 tttgtttact ttttataccc cctgttgacg tgcttaagcc attttactta agtcgtttct 120
 cgcttaactt aaaaataaaa taaatttcca ccgaacgttt gaattgtatt atccattaac 180
 tttggttaaa atcaattccg actgttcggt cgtgcgtaa ccacgttgga aatcaaaaag 240
 aggtaaaaaa taatataata atcaaaaaga catcttttag tgaaataaag cggaaaatca 300
 attggacatt ttctctttgg gatttctcat tcttaatcga attgattaat aactaaagtg 360
 aaactaaagg ctaaaatcaa tccacctagt caagctcgtc cacaaaaata ggcttttg 418

<210> 32383
 <211> 272
 <212> DNA
 <213> Glycine max

 <400> 32383

 agctttccac ccagctcacc caggcgagca gggctgcttc ctccagaagc aacaaccttc 60
 tggaggaatc ttctggaggg cccaagcggg cctggctgct atttgcaccc ccatttttac 120
 taaggacacc ccccttttct attttttctg aactcttttt ctgtaacgtt acaaaactct 180
 acgaacttcg taacgatact tatcttttct tctgcaggct acgaaccctt acgacttatg 240
 tattttactct tttttactct caaagaagtt ac 272

<210> 32384
 <211> 511
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32384

 cctcttcacc acactatctc cacaaatact aaacctctct tctcactatg ttcaatntgt 60
 ttcataatta cgcccgcnct angatcctgt gactcactat acnccanata gaatagtann 120
 ggggacctta gagtaacctg tagcagccac atattttctt aaattaacaa aaaatcctat 180

cactcctcca ctaatatgct tacgtgtcat gaggcattgta aagcatgatt gatgtgcaca 360
aagtgtgact atatgatgtg gcaatggcgt gtagcatgca catgctcacc 410

<210> 32387
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32387

agcttcttgt agaggtggag ggcgcantg gagtggtgga ggagctcgat ggtgcggtgg 60
agggtgaaga gctgggtggt tttggtggca atagagtagt gaatgttga gaactcggag 120
cggaggtgac gaacggagga ctatagtgc ccagcacaaa tctaaggtgt acaaactcta 180
tttaattatt ttcctttgtc ctttgcttg accgtcatca agaccaataa aaaaatggtc 240
ctctccattc tegtgtcat tcttaccatc gaaaacattg caagcgaaga accaccatca 300
caacaagcac gactcagata tgagaaccac acatatccag atatgagaaa tagtgagaac 360
cacatcaaga tctta 375

<210> 32388
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32388

tgccaccag ctgcctaag tgagctaagt tgcttctcc atatagcacc tggaggaact 60
tcttggaagg cccaagtggg cccggccttt ntttgetgat tctttttccg taatgttacg 120
gaactttacg aattccgtaa cgatacttgt tttccttccg taatgttacg gaaccttatg 180
gattacgtaa tcatcccttt tttggctttc ggaatgttac ggaacctcac acattgtgta 240
acaatgcttc cttctgattt ccggcatggt acgaaacttc acggatcgtg caaactccc 300
tcttttgact tcggcacgtt atggaacttt acgtattgtg caacaatggg tgccaagtac 360
ctcgaagcgg tcaagatgca atccaacctc ncaagggcat tggatagaag actccaagaa 420
gaatgagccc cagatgcaag agaacgcctt anggttctca tgacc 465

<210> 32389

<211> 356
 <212> DNA
 <213> Glycine max

<400> 32389

cgcttggtatt actttgttcg catattcact tatctctgta ggacatgcta taaaggctca 60
 tcgcaaagtt ctatgactct atcttaaata aattataact ttctagtata taacaatggc 120
 agaaagacag attgttcttg cctttgtttc ctccccacac tggccaaatc acgtgatgat 180
 ggatattgac ccgagtatat acattttggg gcctaacgct aaaaatattt atgggatctc 240
 tcttttacia gaattttaga gaaacttact atatcatata aaatatcaat ctttctatcc 300
 ctctcttaat gttttcagct gcatattgcy acattggcta aataacatac cttacg 356

<210> 32390
 <211> 128
 <212> DNA
 <213> Glycine max

<400> 32390

tatagtattc aacttggtaa atcatgacca ctgtgtaaac tgaatatctt acgaagtgct 60
 cgcgtgcagt agccctcata tctataaata atatgtggct gagaacaggg gactctactc 120
 atcatgat 128

<210> 32391
 <211> 388
 <212> DNA
 <213> Glycine max

<400> 32391

aaacaactat cttaatgagc tattgatcaa aagacatccc acacaatata tgtccctcgc 60
 tgtctgatga taacaacaca cttgtacaac acgcacaacc actaaaaaca tttttatccc 120
 gcctacctgc cccaccgccg ccgttacaat tagacactat attactacca aaaactaata 180
 cccacttacc cagctattag aggcgaaact tctcctcaaa aaccattact taaatataac 240
 taacttaata caaattacac cccttagacc gaacatacag accctaccac aaattgaaga 300
 gaactatctc cttatcacac aatagattaa aaatcattcg agccctacga accctaactc 360
 aaatgattct tcacactgca atccaccc 388

<210> 32392
 <211> 160
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32392

aacttgaagc ctgcatggca gaacaatcta acgctacacg cgcacccgag gaaatgatct 60
 tgacacttac ccagctgaca tctgaaactg acaattcaan cccctaacca caccatatga 120
 ataacaggac agcagaatta acgaaggaac ttcaagataa 160

<210> 32393
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32393

agcttcctat caaatagggt atatttaacc taactattat tcagatatat ttgaatatct 60
 tgcctattac taaatactaa attatctata acgtcatatt atctacaagg tacgaatata 120
 atcgtctacc tttatttgtc attcaacgca cctctctaac attatatcta agccattggt 180
 tattatctat aacccatgaa tcactctccc ctacaaacaa ggactagtac ccttgctcat 240
 tcactatcta taaatatagg ttccatcaaa tccatttaca cgacctgctc tcacacactc 300
 aacacacgac aacaaagtnt gttccccctct ctttcgcgcc tgcgcgacac cagccacac 360
 cattatcaaa tgtggttttg tcgtgcacaa caaaaaaaaaa taacacatta tg 412

<210> 32394
 <211> 223
 <212> DNA
 <213> Glycine max

<400> 32394

actaggaaca ttctatggag aggtcacgct ggatccgaag aggtatgtgg ctgagatggc 60
 gggactagta cgcccgatgg agaccagcct gcgggcactc cttctacagc catacaccat 120
 acatgccgcy caggatcgta tcatattact tgctgctaga tacggtgcac tectgacgac 180
 atgcttgctc ccgactaagg atatagagcc tactctaaag tcc 223